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# AMERICAN SOCIETY OF CIVIL ENGINEERS

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CATALOGUE OF THE LIBRARY  
JUNE, 1900



House of the Society, No. 220 West Fifty-seventh Street, New York City.







220 WEST FIFTY-SEVENTH STREET,  
NEW YORK, November 26th, 1900.

***To Members, American Society of Civil Engineers:***

The hope of the Board of Direction in issuing a Catalogue of the Library is to extend the usefulness of the Library among members, and to awaken interest in this important branch of the Society's work.

Up to the present time members have had no convenient way of ascertaining what the Library contains and what it lacks; and inasmuch as it must necessarily be dependent upon donations for a large class of books, it is hoped that this publication will result in many valuable accessions.

Attention is called to the fact that from the Catalogue, not only the absence from our shelves of individual works may be noted, but that missing numbers of all serial publications, whether in Technical Periodicals, Railroad, Water-Works, Sewer or other Municipal Reports, are indicated.

Each member must know, in a general way at least, what there is in his private library which he is willing to donate, and it will now be an easy matter for him to ascertain whether he can supply any of the deficiencies referred to above.

A scrutiny of the Catalogue, particularly in the "Engineering Handbook" Class, will also show that, to bring the Library up to date, there are many books which should be purchased, and the Library Committee would be glad to receive suggestions for this purpose from those who, having read such books, can give advice which will be of great value.

The importance of making this Library complete in all branches of Engineering needs no comment, and the hearty co-operation of members, without which this cannot well be accomplished, is most earnestly requested.

Respectfully,

CHAS. WARREN HUNT,

*Secretary.*





**AMERICAN SOCIETY**  
**OF**  
**CIVIL ENGINEERS**

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**CATALOGUE OF THE LIBRARY**

**JUNE, 1900**

**Prepared by the Secretary**  
**under the direction of**  
**The Library Committee**

**House of the Society, No. 220 West Fifty-seventh Street, New York City.**





## INTRODUCTION.

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When the Society moved into its present House, in November, 1897, the shelf room available made it possible to rearrange the Library on a basis which should provide for future expansion. In considering methods for this rearrangement it became evident that a new index was a necessity, and various plans were discussed and systems examined, one of the essentials being that the work should be carried on without interfering with the daily use of the Library.

The plan adopted provided for three separate type-written card indexes as follows:

The **Classified Index**, the **Author Index**, the **Subject Index**.

In the **Classified Index** the General Classes are indicated by capital letters (A to Z); subdivisions of General Classes are indicated by lower-case letters (a, b, c, etc.); consecutive numbers (1, 2, 3, etc.) are used for entries under each subdivision. The books in each subdivision are brought together on the shelves. In the Card Index the arrangement is alphabetical for each subdivision. Books relating to more than one class are cross-indexed, and, owing to the fact that there are many volumes made up of pamphlets on separate subjects, it quite often occurs that a title must be catalogued in one subdivision, and placed on the shelves in another.

The **Author Index** is arranged alphabetically, and many duplicate entries are made therein. In order to bring together material which otherwise would be separated, the Names of Railroads, Structures, Waterways, Municipalities and Corporations are frequently used as Authors. Thus, a report relating to a railroad, water-works, or sewerage matter, is brought out under the name of the author, and also under the name of the particular corporation to which it relates.

The **Subject Index** is arranged under headings covering details not specifically brought out in the Classified Index. Here, for instance, is

brought together for ready reference, material on Rails, Ties, Ballast, Water Tanks, Locomotives, etc., to find which would require search through the books classified in the subdivisions of Railroads. This index does not pretend to bring out all material under each such heading, but is sufficiently comprehensive to save much time to one who visits the Library in search of information on specific details.

Work on these three Indexes was begun April 1st, 1898, and is now finished, more than 58 000 cards having been written. The Board of Direction has authorized the publication of a Catalogue of the Library for distribution to the membership. For this purpose the printing of the **Author** and **Subject Indexes** is not considered necessary or expedient, and this volume reproduces the **Classified Index**.

The general subdivisions with the necessary explanatory notes, and list of abbreviations used are given in the following pages.

There are branches of engineering work common to several of the general classes, and also subjects to determine the proper position of which a careful analysis of the whole scheme of classification is necessary. A list of such subjects has been prepared showing where general books upon them have been classified, and also giving references to other classes under which information relating to them may be sought.

CHAS. WARREN HUNT,  
*Secretary.*

NEW YORK, JUNE, 1900.



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## LIST SHOWING CLASSIFICATION OF SPECIAL SUBJECTS.

*This list is printed as an aid to the use of the catalogue, and contains only subjects the classification of which must be determined by a careful study of the whole scheme, and subjects which have necessarily been classified under more than one head. When the class letters are not enclosed in parentheses, they indicate the subdivision where the subject is primarily classed; when so enclosed, they indicate the class in which some material on that subject may be found.*

Acoustics.....	<b>YI</b>	Electro-Magnetism.....	<b>Ha</b>
Almanacs.....	<b>U</b>	Engines:	
Aqueducts.....	<b>Dc Cf</b>	Gas.....	<b>Ga</b>
Armor Plate.....	<b>Kd Lc</b>	Locomotive.....	<b>Ad</b>
Asphalt.....	<b>Yh</b>	Petroleum.....	<b>Ga</b>
Asphalt Pavements.....	<b>Ne</b>	Pumping.....	<b>Dc (Da De Ec Ma)</b>
Assaying.....	<b>Yi</b>	Marine.....	<b>Gc</b>
Automobiles.....	<b>Ga</b>	Traction.....	<b>Gc</b>
Barometers.....	<b>Yj (R)</b>	Evaporation.....	<b>Yj (Da)</b>
Beacons.....	<b>Cc</b>	Explorations.....	<b>Qe</b>
Brick.....	<b>Jc</b>	Explosives.....	<b>Ld Ma (Ac)</b>
Brick-Making.....	<b>Jc (Ga)</b>	Ferries.....	<b>Cc (Ad)</b>
Buoys.....	<b>Cc</b>	Filtration.....	<b>Db Ee</b>
Caissons.....	<b>Fa (Cc)</b>	Finance.....	<b>Zj</b>
Carpentry.....	<b>Ja</b>	Foundations.....	<b>Ja</b>
Cast Iron.....	<b>Jc</b>	Fuel.....	<b>Gd (Za)</b>
Cathedrals.....	<b>Ja (Jb)</b>	Gold.....	<b>Yi</b>
Cement.....	<b>Jc</b>	Graphical Statics.....	<b>Fa</b>
Chimneys.....	<b>Ja</b>	Horticulture.....	<b>Yb</b>
Coal.....	<b>Yh</b>	Hydraulics.....	<b>Da (Cb Dc De Ec)</b>
Concrete.....	<b>Jc</b>	Hydrodynamics.....	<b>Da (Dd)</b>
Continuous Girders.....	<b>Fe</b>	Hydrostatics.....	<b>Da</b>
Copper.....	<b>Yi</b>	Hygrometers.....	<b>Yj</b>
Dams:		Indexes.....	<b>U</b>
Coffer.....	<b>Fa</b>	Iron.....	<b>Yh</b>
Fixed.....	<b>Da (Cb Dc Dd De)</b>	Labor.....	<b>Zj</b>
Movable.....	<b>Cb (De)</b>	Land Reclamation.....	<b>Eb</b>
Dredging.....	<b>Ca (Cb Cc Cd)</b>	Lighthouses.....	<b>Cc</b>
Dry Docks.....	<b>Kb</b>	Lightships.....	<b>Cc</b>
Dynamics.....	<b>V YI</b>	Locomotives.....	<b>Ad</b>
Earthwork.....	<b>Ac</b>	Magnetism.....	<b>Ha YI</b>



Manometers.....	<b>Gc</b>	Roofs.....	<b>Ja (Fa Fb)</b>
Map-making.....	<b>R</b>	Rope Transmission.....	<b>Ga</b>
Masonry.....	<b>V Ja</b>	Shell Roads.....	<b>Nc</b>
Mechanics.....	<b>V</b>	Ship Building.....	<b>Ka</b>
Mineralogy.....	<b>Yh</b>	Ship-Railroads.....	<b>(Ab Ac)</b>
Oil Wells.....	<b>Yh</b>	Silver..	<b>Yi</b>
Optics.....	<b>Yl</b>	Specifications (General).....	<b>V</b>
Ornithology.....	<b>Yn</b>	Steel.....	<b>Jc</b>
Paint.....	<b>Jc</b>	Street Cleaning.....	<b>Ef</b>
Paleontology.....	<b>Yh</b>	Strength of Materials.....	<b>V</b>
Petroleum.....	<b>Yh</b>	Tariff.....	<b>Zj</b>
Piles and Pile-driving... <b>Ja (Fa Cc)</b>		Testing Machines.....	<b>Ga</b>
Planing Machines.....	<b>Ga</b>	Thermodynamics .....	<b>Yl</b>
Pottery.....	<b>Ze</b>	Thermometers .....	<b>Yj</b>
Preservation of Timber.....	<b>Jc</b>	Timber.....	<b>Jc</b>
Rainfall.....	<b>Yj</b>	Tubular Bridges.....	<b>Fe</b>
Reservoirs. ....	<b>Da (Dc De)</b>	Tunnels.....	<b>Ac Bc Dc</b>
Retaining Walls.....	<b>Ac</b>	Wages.....	<b>Zj</b>
Riparian Rights.. <b>Ca (Cb Cc DcDe)</b>		Wrought Iron.....	<b>Jc</b>

## EXPLANATORY NOTES.

In this Catalogue each book is indexed in its proper class under the author's name, or under the subject, or the name of a particular Structure, Waterway, Corporation, Municipality or State.

Under "Municipal Reports" (O) are classed many reports which are so general or inclusive that they cannot be placed in special classes; cross references to them, however, are given under the subjects they cover.

When the number precedes the title, the book has been placed in the class where it appears; when the class letter and number come after the title, part of a volume of bound pamphlets classed elsewhere is indicated. When the reference letter and number are enclosed in parentheses and preceded by the word "See" the entry is a cross-reference to the contents of a book indexed elsewhere.

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## ABBREVIATIONS USED.

anon. . . . .	anonymous.	pap. . . . .	paper.
apx. . . . .	appendix.	phot. . . . .	photograph.
b. p. . . . .	bound pamphlet.	pl. . . . .	plate or plates.
bds. . . . .	boards.	por. . . . .	portrait or portraits.
cf. . . . .	calf.	pref. . . . .	prefatory.
cl. . . . .	cloth.	pseud. . . . .	pseudonym.
comp. . . . .	compiled or compiler.	Pt. . . . .	Part.
Cong. . . . .	Congress.	pub. . . . .	publisher.
cor. . . . .	corrected.	rep. . . . .	report.
doc. . . . .	document.	rev. . . . .	revised.
ed. . . . .	edition or editor.	ro. . . . .	roan.
enl. . . . .	enlarged.	rus. . . . .	russia.
ex. . . . .	executive.	sh. . . . .	sheep.
facsim. . . . .	facsimile.	skiv. . . . .	skiver.
fr. . . . .	from.	Sec. . . . .	Section.
il. . . . .	illustrated.	Ser. . . . .	Series.
imp. . . . .	improved.	Sess. . . . .	Session.
misc. . . . .	miscellaneous.	tab. . . . .	table or tables.
mor. . . . .	morocco.	tr. . . . .	translated.
mus. . . . .	muslin.	v. . . . .	volume or volumes.
No. . . . .	number.	vel. . . . .	vellum.
p. . . . .	page.	vs. . . . .	<i>versus</i> .
pp. . . . .	pages.		

# AMERICAN SOCIETY OF CIVIL ENGINEERS.

## CATALOGUE OF THE LIBRARY.

### RAILROADS.

#### RAILROADS—GENERAL.

##### Aa

- 17 **ADAMS, C. F., Jr.** Government and the railroad corporation. Bost., 1871. 33 pp., 9 x 6, pap.
- 14 —Railroad problem: A lecture. N. Y., 1875. 19 pp., 8 x 5, pap.  
—Speech on behalf of the Massachusetts Board of Railroad Commissioners, made before the Joint Standing Legislative Committee on Railways, Feb. 14th, 1873. Note: Relates to the subject of state ownership of railroads. Bost., 1873. 39 pp., 9 x 6, b. p. Ab-7, p. 47.
- AMERICAN RAILROAD JOURNAL AND ADVOCATE OF INTERNAL IMPROVEMENTS**; 1832-67 (v. 1-40). (See Ta3-53.)
- 44 **AMERICAN RAILROAD MANUAL FOR THE UNITED STATES AND THE Dominion (Canada)**, containing full particulars of the mileage, capital stock, bonded debt, equipment, earnings, expenses and other statistics of railroads, as now built and in process of construction; comp. and ed. by Edward Vernon; 1873. N. Y., 1873. 1 v., map in pocket, 11 x 7, cl.
- AMERICAN RAILWAY ASSOCIATION.** Proceedings. (See Sa3-88.1.)
- 22 **AMERICAN RAILWAY OFFICIALS' ANNUAL:** Information for the use of all interested in the management, construction and operation of American railways. Chic., 1872. 1 v., il., 10 x 6, cl.
- 62 **AMERICAN RAILWAY OFFICIALS' MANUAL:** A book containing valuable information for railway superintendents, master mechanics and civil engineers. Chic., 1871. 1 v., 9 x 12, cl.
- AMERICAN SOCIETY OF RAILROAD SUPERINTENDENTS.** Proceedings. (See Sa3-41.1.)
- AMERICAN TRAIN DISPATCHERS' ASSOCIATION.** Proceedings of the annual meeting. (See Sa3-153.1.)
- 32 **ARGOLLO, M. de T. e.** Informação prestada ao Ministro e Secretario d'Estado dos Negocios da Industria, Viação e Obras Publicas do Brazil sobre o arrendamento das estradas de ferro pertencentes a União. Bahia, 1896. 96 pp., tab., 9 x 6, pap.
- ASSOCIATION OF RAILWAY SUPERINTENDENTS OF BRIDGES AND BUILDINGS.** Proceedings of the annual convention. (See Sa3-45.1.)
- AUCOC, LEON.** Les tarifs des chemins de fer et l'autorité de l'état. 1880. (See Ae-170.)
- 3 **BADNALL, RICHARD.** Treatise on railroad improvement; explanatory of the chief difficulties and inconveniences which at present attend the general adoption of railways, and the means by which these objections may be overcome; to which are added various remarks on the operation and effect of locomotive power. Lond., 1833. 3 + 142 pp., 9 x 5, b. p.
- BECKER, MAX.** Der Strassen- und Eisenbahnbau in seinem ganzen Umfange und mit besonderer Rücksicht auf die neuesten Constructionen. 1858. (See V-45, v. 3.)



Aa—(*Continued*).

- 8 **BELL, WILLIAM**, comp. Statement of facts concerning narrow-gauge railways. N. Y., 1871. 60 pp., 7 x 4, pap.
- 18 **BERG, W. G.**, comp. and ed. American railway bridges and buildings: Official reports, Association, Railway Superintendents, Bridges and Buildings. Chic., 1898. 706 pp., il., 9 x 6, cl.
- 33 **BRANNER, J. C.** Railways of Brazil: A statistical article. Chic., 1887. 26 pp., pl., maps, 9 x 6, pap.
- 28 **CAMARA, J. E.** Chemins de fer de la Province de St. Paul, Brésil: données techniques et statistiques. Rio de Janeiro, 1875. 118 pp., map, tab., 9 x 6, pap.
- 30 **CERCLE DES CHEMINS DE FER.** Annuaire de 1865. Paris, 1865. 84 pp., 6 x 5, pap.
- 31 **CHEMINS DE FER DE L'ÉTAT BELGE.** Statistiques. no place, 1869. 2 pp., 11 x 8, pap. no title-page. manuscript.
- COMMITTEE OF LOCOMOTIVE AND CARRIAGE SUPERINTENDENTS FOR India.** General directory and railway list. (See Se-3, 2.)
- 55 **CORTIO, J. J.**, comp. Treatise on the South American railways and the great international lines; sent to the World's Exhibition of Chicago by the Ministry of Foment of the Oriental Republic of Uruguay. Note: English translation and Spanish original in same volume. Montevideo, 1893. 601 pp., 15 pl., 11 x 8, pap.
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- 6 **BELVIDERE, DELAWARE R. R.** Report on the location of the B., D. R. R.; with the estimate. Ashbel Welch. Trenton, 1849. 46 pp., 9 x 6, b. p.
- 201 **BETHLEHEM R. R.** Prospectus and charter. Bethlehem, Pa., 1862. 14 pp., 9 x 5, pap.
- 401 **BOSTON, MASS.** Report of the Committee appointed under Chapter 88 of the Resolves of 1874, in relation to the use of the Common Flats at South Boston. Massachusetts—Joint Special Committee on South Boston Flats. (1874). Note: Relates to the use of the Commonwealth Flats as terminal grounds for railroads. Bost., 1875. 79 pp., maps, 9 x 6, pap.
- 824 —Report relative to railroads crossing each other in the vicinity of Boston; transmitted to the Senate, for the use of the Legislature, by the Governor. E. S. Chesbrough. no place, 1850. 13 pp., maps, 10 x 6, pap.
- 323 **BOSTON & LOWELL R. R.** Argument, on behalf of the B. & L. R. R. Co. at a hearing on the petitions of William Livingston and others, and Hobart Clark and others, before the Railroad Committee of the Massachusetts Legislature. Daniel Webster. Bost., 1845. 31 pp., 9 x 6, pap.
- 808 **BOSTON & MAINE R. R.** Proceedings on the subject of a railroad from Portland to Boston, Sept. 29th, 1855. Dover (N. H.) Convention. 16 pp., 9 x 5, pap. no title-page.
- 226 —Report of the Board of Directors to the Stockholders, submitting the report of their Engineer, with a plan and profiles, illustrative of the surveys, and estimates of the cost of a railroad from Haverhill to Exeter, etc. Andover, N. H., 1886. 19 pp., map, 10 x 6, pap.
- 139 **BOSTON & NORTHWESTERN R. R.** Argument upon the necessity of connecting the South Boston flats with the railway system of New England and the West. Feb., 1875. Edward Atkinson. Bost., 1875. 23 pp., map, 9 x 6.
- 45 **BOSTON & PROVIDENCE R. R. CORPORATION.** Report of the Board of Directors to the Stockholders, submitting the report of their Engineer, with plans and profiles illustrative of the surveys, and estimates of the cost of a railroad from Boston to Providence; to which are annexed the acts of incorporation. Bost., 1832. 87 pp., maps, 10 x 6, pap.
- 27 —Report of the Commission of Expert Engineers on railroad terminal facilities. Providence, 1888. 17 + 1 pp., pl., map, 9 x 6, pap.
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- 44 **BOSTON, HOOSAC TUNNEL & WESTERN R. R.** Report of the Corporators, appointed under acts of 1874. Bost., 1875. 32 + 135 pp., maps, 9 x 6, pap.
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- Reports of the Chief Engineer, with maps, profiles, etc.; together with a communication from the President in relation to its condition and business prospects, May, 1854. Buffalo, 1854. 55 pp., maps, 9 x 6, b. p. Af-5, p. 971.
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- 160 **CALIFORNIA CENTRAL RY.** Report upon the C. C. Ry. in California and Nevada. Lyman Bridges. N. Y., 1881. 20 pp., map, 9 x 6, pap.
- 6 **CAMDEN & AMBOY R. R.** Debates in the General Assembly on the South Jersey Central and air line railroad bill, and the extension of the charter of the C. & A. R. R. Co.; also speeches by Stephen Congar in the Senate on the Extension bill, 1854. Trenton, N. J., 1854. 80 pp., 8 x 5, b. p.
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- 66 **CANADA.** Report of progress of exploration in the country between Lake St. John and James Bay; made under instructions from the Department of Colonization and Mines, Quebec. Henry O'Sullivan. Quebec, 1898. 20 pp., il., maps, 9 x 6, pap.
- CANADA—SENATE COMMITTEE ON ROUTES TO THE YUKON.** Report upon opening up direct communication between the railway system of Canada and the navigable waters of the Yukon. 1898. (See Ai-68.)
- CANADA SOUTHERN RY.** Prospectus, reports and other documents. N. Y., 1872. 68 + 1 pp., map, 9 x 6, b. p. Cb-233, p. 515.
- 885 **CANADIAN PACIFIC RY.** British Columbia: Report on an exploratory survey for a line of railway to connect the C. P. Ry. with Barkerville, Cariboo District. H. P. Bell. Victoria, B. C., 1887. pp. 453-460, maps, 11 x 8, pap.
- 218 —Montreal, 1887. 45 pp., il., pl., 10 x 8, pap.
- 154 —European and Asiatic intercourse via British Columbia, by means of a main through trunk railway from the Atlantic to the Pacific. Lond., 1858. 58 pp., map, 9 x 5, pap.
- 335 —Letters to the *Boston Journal* and *Springfield Republican*; descriptive of his trip over the C. P. Ry. Sidney Dickinson. no place, no date. 28 pp., 8 x 4, pap.
- 140 —Overland route through British North America; or, The shortest and speediest road to the East. Alfred Waddington. Lond., 1868. 48 pp., map, 8 x 5, pap.
- 205 —Pacific railway, and the claims of St. John, New Brunswick, to be the Atlantic terminus. Note: Paper read before the Mechanics' Institute of St. John, Feb. 7th, 1859. T. T. V. Smith. St. John, N. B., 1859. 30 pp., 9 x 6, pap.
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- 91 —Sketch of the proposed line of overland railroad through British North America. Alfred Waddington. Ottawa, 1871. 29 pp., 8 x 5, pap.
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- 99 **CENTRAL PACIFIC R. R.** Address of the Lieutenant-Governor of Illinois, on the resources of the far West, and the Pacific Railway, before the Chamber of Commerce of the State of New York, at a special meeting, Jan. 25th, 1866. Wm. Bross. N. Y., 1866. 30 pp., 9 x 6, pap.
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- Map of C. P. R. R. across summit of Sierra Nevada. no date. (See Qf-260.)
- 53 —Railroad communication across the continent, with an account of the C. P. R. R. of California; a description of the route, the progress and character of the work, its resources, business and prospects, with the foundation and advantages of its first mortgage bonds. Fisk & Hatch. N. Y., 1868. 32 pp., map, 9 x 6, pap.
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- 101 —Report of explorations for a railway route near the thirty-fifth parallel of latitude, from the Mississippi River to the Pacific Ocean. A. W. Whipple. Wash., 1854. 154 + 6 + 2 pp., 10 x 6, pap.
- 102 —Report of exploration of a route for the Pacific Railroad, near the thirty-second parallel of latitude, from the Red River to the Rio Grande. John Pope. Wash., 1854. 320 pp., 10 x 7, pap.
- 56 —Report on the preliminary survey, cost of construction and estimated revenue of the C. P. R. R. of California, across the Sierra Nevada Mountains from Sacramento to the eastern boundary of California, Oct. 22d, 1862. T. D. Judah. Sacramento, 1862. 56 pp., 9 x 6, pap.

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- 52 — Report upon recent surveys, progress of construction and an approximate estimate of cost of first division of fifty miles of the C. P. R. of California, July 1st, 1863. T. D. Judah. Sacramento, 1863. 26 pp., 9 x 6, pap.
- 59 — Report upon recent surveys, progress of construction, and an approximate estimate of receipts of the C. P. R. R. of California, Oct. 5th, 1864. S. S. Montague. Sacramento, 1864. 32 pp., 9 x 5, pap.
- 98 — Reports of the Majority and Minority of the Select Committee on the Pacific Railroad. U. S.—House. Wash., 1860. 72 pp., map, 10 x 6, pap.
- 57 — Statement relating to the projected Terminal Central Pacific Ry. W. B. Hyde. San Fran., 1867. 13 pp., map, 9 x 6, pap.
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- 274 **CENTRAL R. R. OF NEW JERSEY.** Proposed railroad to Easton, Pa. 6 pp., 9 x 6, pap. no title-page.
- 6 — Report on the surveys of the C. R. R. of N. J., from Elizabethport, on Staten Island Sound, to Easton, Pa. James Laurie. N. Y., 1850. 23 pp., 9 x 6, b. p.
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- 98 **CHARLESTON CHAMBER OF COMMERCE.** Report of a special committee appointed to inquire into the cost, revenue, and advantages of a railroad communication between the city of Charleston, and the towns of Hamburg and Augusta. Charleston, S. C., 1828. 32 pp., 9 x 5, b. p.
- 441 **CHEMIN DE FER DE LECCO A COIRE.** Par Le Splügen; avant-projet, partie comprise entre Riva de Chiavenna et Coire; plan de situation; profil en long. Winterthur, no date. pl., 16 x 11, bds.
- CHEMIN DE FER D'ORLÉANS.** Partie comprise entre Lorient et Quimper sur une longueur de 66 kilomètres; plan et profil généraux. no place, no date. Map, 12 x 37, b. p. Scales: horizontal, 1 : 80 000; vertical, 1 : 2 000. De-650, p. 175.
- Partie comprise entre Quimper et Landerneau sur une longueur de 83 kilomètres; plan général. Paris, no date. map, 12 x 30, b. p. Scale, 1 : 80 000. De-650, p. 181.
- Partie comprise entre Savenay et Lorient sur une longueur de 150 kilomètres; plan et profil généraux. no place, no date. Map, 12 x 76, b. p. Scales: horizontal, 1 : 80 000; vertical, 1 : 2 000. De-650, p. 119.
- 15 **CHEMIN DE FER DU GOTHARD, SOCIÉTÉ DU.** Le Chemin de Fer du Saint-Gothard sous le rapport technique; calcul du rendement. A. Beckh and R. Gerwig. Note: Addressé au comité du Gothard. Zürich, 1865. various pagings, 9 x 6, pap.
- 14 — Die Gotthardbahn in technischer Beziehung; und Rentabilitäts-Berechnung auf Grundlage des kommerziellen und technischen Gutachtens. A. Beckh and R. Gerwig. Note: Technisches Gutachten der von dem Gotthardausschusse. Zürich, 1865. various pagings, 9 x 6, pap.
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- 113 — Switzerland: The St. Gothard railway. G. L. Catlin. Zürich, 1893. 38 pp., il., pl., maps, 7 x 5, pap.
- 283 **CHEMIN DE FER DU SIMPLON.** Traversée des Alpes par le Chemin de Fer du Simplon. R. Gentilini. Paris, 1877. 40 pp., map, 10 x 7, pap.
- 371 **CHEMINS DE FER SUISSES, COMPAGNIE DE L'UNION DES.** Projet d'un chemin de fer alpin par le Lukmanier. Contents: v. 1, Exposé des conditions techniques, commerciales et financières du projet; v. 2, Devis estimatif du coût d'établissement; v. 3, Plan de situation et profil en long entre Bellinzona et Coire. St. Gall, 1867. 3 v. (pl. 26 x 19), maps, phot., 9 x 6, pap.
- 290 **CHESAPEAKE & OHIO R. R.** C. & O. R. R., Nov. 1st, 1872. Fisk & Hatch. no place, no date. 20 pp., 9 x 6, pap.
- 55 — Geological report upon the iron ore, coal and other mineral deposits, found along the line of the C. & O. R. R. T. S. Ridgway. N. Y., 1872. 24 pp., 10 x 7, pap.
- 49 — Its advantages as a through passenger and freight route between the sea-board and the West; together with information concerning the agricultural, mineral and mechanical resources, the remarkable coal and ore deposits, etc. Fisk & Hatch. N. Y., 1873. 68 + 3 pp., 9 x 6, pap.
- CHESTER & HOLYHEAD RY.** Return to an order of the House of Commons for copy of Mr. Rendel's report to the Admiralty on C. & H. Ry. Great Britain — Lords Commissioners of the Admiralty. no place, 1844. 9 pp., map, 13 x 8, b. p. Cc-203, p. 291.



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- 89 **CHICAGO & MICHIGAN GRAND TRUNK R. R.** New railway outlet from Chicago to the sea-board; Port Huron & Lake Michigan R. R. Co.; Chicago & Michigan Grand Trunk Ry. Co.; organization, resources, business prospects. W. L. Bancroft. Port Huron, Mich., 1866. 52 pp., map, 9 x 6, pap.
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- 400 **CINCINNATI & SOUTHEASTERN RY.** Report on the resources of the region adjacent to the proposed C. & S. Ry. N. S. Shaler. Cambridge, Mass., 1884. 30 pp., map, 9 x 7, pap.
- 61 **CINCINNATI & TERRE HAUTE RY.** Appendix to the prospectus, 1871. N. Y., 1871. 14 pp., map, 9 x 6, pap.
- 62 — Prospectus, 1871. N. Y., 1871. 26 pp., tab., map, 9 x 6, pap.
- CINCINNATI, HILLSBOROUGH & PARKERSBURG RY.** Report of the final location and probable cost of the C. H. and P. Ry.; with some remarks on its peculiar advantages as the coal railroad of Cincinnati. Cin., 1853. 52 pp., maps, tab., 9 x 5, b. p. Ag-6, p. 87.
- Report on the preliminary surveys made for the C. H. & P. Ry.; with the opinion thereon of B. H. Latrobe. Ellwood Morris. Cin., 1852. 45 pp., map, 9 x 6, b. p. Ah-24, p. 711.
- 297 **CINCINNATI SOUTHERN R. R.** Mineral and agricultural resources of the portion of Tennessee along the Cincinnati Southern and Knoxville & Ohio Railroads; including the country between the two. J. B. Killebrew. Nashville, 1876. 145 pp., il., pl., maps, 8 x 5, pap.
- 346 — Over the Cincinnati Southern to the Annual Convention of the American Society of Civil Engineers, on Lookout Mountain, Tennessee, May 20th, 1891. no place, 1891. 16 pp., map, 10 x 6, pap.
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- CLEVELAND, COLUMBUS & CINCINNATI R. R.** Report on the surveys, estimates, and income of the C. C. & C. R. R., to the President and Directors. John Childe and Frederick Harbach. Cleveland, 1848. 62 + 1 pp., 8 x 5, b. p. Aj-36, p. 43.
- 63 **CLEVELAND, PAINESVILLE & ASHTABULA R. R.** Report on the preliminary surveys for the C., P. & A. R. R. Frederick Harbach. Cleveland, 1850. 17 pp., 9 x 6, pap.
- 65 **COLDWATER, MARSHALL & MACKINAW R. R.** Statement of its present condition, country through which it passes, and business prospects, Sept., 1874. Lansing, 1874. 17 pp., 9 x 6, pap.
- CONTINENTAL RY.** Map showing the route of the C. Ry., and its connecting lines. G. W. & C. B. Colton & Co., pub. 1873. (See Qf-434.)
- 380 **DANDRIDGE, P. P.** Report upon the proposed railway from Pittsburgh, Pa., to the James River Valley in Virginia. no place, 1881 (?). 16 pp., map, 12 x 9, pap.
- 286 **DANVILLE, OLNEY & OHIO RIVER R. R.** Prospectus. Bost., no date. 8 + 3 pp., map, 13 x 8, pap.
- DAYTON & WESTERN R. R.** Exhibit of the D. & W. R. R. Co., which forms a part of the Great Central Railway through the states of Ohio and Indiana. N. Y., 1851. 23 pp., map, 9 x 6, b. p. Ah-24, p. 829.
- DENVER & RIO GRANDE R. R.** Map of the D. & R. G. R. R. system. Rand, McNally & Co., pub. no date. (See Qf-435.)
- DENVER, COLORADO CAÑON & PACIFIC R. R.** Éboulements de couteaux irrigués dans la Colombie Britannique; Études préliminaires pour chemin de fer dans les cagnons du Colorado. Jules Gaudard. no date. (See Ae-135.)
- 64 **DES MOINES & MINNEAPOLIS R. R.** Prospectus. Des Moines, 1877. 31 pp., map, tab., 9 x 6, pap.
- DETROIT & MILWAUKEE R. R.** Condition and prospects of the D. & M. R. R. from Detroit to Grand Haven. Detroit, 1855. 45 + 3 pp., maps, 9 x 5, b. p. Af-8, p. 607.
- DUBLIN & KINGSTOWN HARBOR RY.** Return to an order of the House of Commons for copy of memorials from the inhabitants of Kingstown to the Treasury, relating to encroachments on the harbour of Kingstown, by the D. & K. H. Ry. Great Britain—Lords Commissioners of the Treasury. 1844. (See Cc-204, p. 227.)
- ERIE & CLEVELAND R. R.** Exhibit of the condition and prospects of the Pennsylvania Section of the E. & C. R. R. by the Franklin Canal Co. 1851. 24 pp., 8 x 5, b. p. no title-page. Ag-8, p. 160.
- ERIE RY.** Map of E. Ry. and profiles of branches. no date. (See Qf-128.)
- 443 — Profile. N. Y., 1874. Scales: horizontal, 4 miles to 1 in.; vertical, 400 ft. to 1 in.

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- EUROPE.** Special Karte der Eisenbahn-Post- und Dampfschiff-Verbindungen Mitteleuropa's mit Angabe aller Eisenbahn-Post- und Dampfschiffstationen, Speditionsorte, Zoll- und Steuerämter, Bäder Mineralquellen. C. J. C. Raab. no date. (See Qf-441.)
- EUROPEAN & NORTH AMERICAN RY.** Plan for shortening the time of passage between New York and London. J. A. Poor and others. Portland, Me., 1850. 24 pp., map, 9 x 6, b. p. Cf-32, p. 695.
- Plan for shortening the time of passage between New York and London, with documents relating thereto, including the proceedings of the convention and the charter of the E. & N. A. Ry. Portland (Me.) Railway Convention. Portland, 1850. 155 pp. 8 x 6, b. p. Af-215, p. 3.
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- Report on the survey of the E. & N. A. Ry.; made under the authority of the State of Maine. A. C. Morton. Portland, 1851. 96 pp., map, 8 x 5, b. p. Af-215, p. 223.
- FERROCARRIL CENTRAL DE VENEZUELA.** Plano general parte de Caracas á Sta. Teresa. T. D. Weir. no date. (See Qf-437.)
- 269 —Venezuela Central Railway and its sources of traffic. G. E. Church. Lond., 1888. 35 pp., 10 x 6, pap.
- 163 **FERROCARRIL DE ACJUTLA A SANTA ANA.** Contestacion al informe del . . . A. J. Scherzer, sobre los ferrocarriles de Acajutla á Santa Ana. A. van Severen and Rafael Arbizu. San Salvador, 1888. 14 pp., 8 x 6, pap.
- 17 **FERROCARRIL DE ANTIOQUIA.** Report on the construction of a railway from Puerto Berrio to Barbosa (State of Antioquia). F. J. Cisneros. N. Y., 1878. 166 pp., maps, 9 x 6, cl.
- FERROCARRIL DE LA GUAIRA A CARACAS.** Plano general del ferrocarril de la Guaira á Caracas. J. de Leon. no date. (See Qf-436.)
- 391 **FERROCARRIL DEL CAUCA.** Ferrocarril del Cauca, United States of Columbia; report on the project to construct a railway from the Bay of Buenaventura, upon the Pacific Ocean and the river of Cauca. F. J. Cisneros. N. Y., 1878. 92 pp., map, 9 x 6, cl.
- FERRO-CARRIL MEXICANO DE VERACRUZ A MEXICO.** Plano orografico de la zona recorrida por el ferro-carril Mexicano de Veracruz á Mexico. A. G. Cubas. 1877. (See Qf-97.)
- 442 **FERROVIA SUCCURSALE DEI GIOVI.** Linee di completamento della rete ferroviaria del regno Ferrovie Succursale dei Giovi; album delle opere principali. Genova, 1883. pl., 19 x 13, cl.
- FRANCE.** Carte des chemins de fer de la France au 31 Décembre, 1880. R. Hausermann. 1888. (See Qf-438.)
- 317 **FRANKLIN & KENNEBEC R. R.** Report of the examinations and surveys for a railroad route for the F. & K. R. R. F. W. Lander. Farmington, no date. 8 pp., 9 x 6, pap.
- 9 **GALENA & CHICAGO UNION R. R.** Report of the Chief Engineer upon the progress, cost and business of the G. & C. U. R. R. up to the 1st of May, 1850. John Van Nortwick. Chic., 1850. 16 pp., 8 x 5, b. p.
- 9 —Report of the survey of the route of the G. & C. U. R. R. R. P. Morgan. Chic., 1847. 28 pp., 8 x 5, b. p.
- 3 **GALVESTON & RED RIVER RY.** Prospectus and charter. 20 pp., 9 x 6, b. p. no title-page.
- GENERAL.**
- 349 **ALEXANDER, THOMAS, and A. W. THOMSON.** Junctions and connections for lines of railway, with numerical examples. 9 pp., 5 pl., 13 x 9, pap. no title-page.
- 411 **ALLEN, C. F.** Railroad curves and earthwork. N. Y., 1899. 13 + 194 pp., il., tab., 7 x 5, cl.
- 28 **BEANS, E. W.** Treatise on railway curves and location. Phil., 1872. 56 pp., pl., 7 x 5, mor.
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- 171 **BOUSCAREN, L. F. G.** Instructions for laying out circular curves with spiral approaches. 5 pp., 7 x 5, pap. no title-page.
- 433 **CARHART, DANIEL.** Field book for civil engineers. Bost., 1893. 12 + 281 pp., il., 7 x 4, mor.
- 853 **CLARK, J. M.** New system of laying out railway turn-outs instantly by inspection from tables. N. Y., 1884. 38 pp., pl., 7 x 4, cl.
- 314 **COMPARATIVE PROFILES OF MOUNTAIN RAILROADS.** pl., 14 x 22, pap. no title-page.
- 394 **CRANDALL, C. L.** Transition curve; by offsets and by deflection angles. ed. 2, rev. and enl. N. Y., 1899. 99 pp., tab., 6 x 4, mor.

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- 418 **CROSS, C. S.** Engineer's field book. Note: A method of laying out railroad curves; and excavation and embankment tables. N. Y., 1855. 43 pp., il., 8 x 5, cl.
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- LAKE SHORE & MICHIGAN SOUTHERN RY.** Map of the L. S. & M. S. Ry. and its connections; compiled from the latest sources, and showing the true location of each road. 1873. (See Qf-249.)
- 829 **LEHIGH & SUSQUEHANNA R. R.** Line No. 1, survey of route for S. D. R. R. from Laurel Run south of Baltimore new slope and south side of hill to Empire shaft; line No. 2, from Empire shaft running south of Nanticoke R. R., south of Baltimore old shaft, connecting with line No. 1 at Station 1523, April, 1867. I. S. Potter. pl., 15 x 40, pap. no title-page.
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- 445 **LOUISVILLE & NASHVILLE R. R.** Condensed profile. no place, 1874. Scales: horizontal, 12 miles to 1 in.; vertical, 200 ft. to 1 in.
- 319 **LOUISVILLE, CINCINNATI & CHARLESTON R. R.** Address in behalf of the Knoxville Convention to the citizens of the several states interested in the proposed, L., C. & C. R. R. R. Y. Hayne. Charleston, 1836. 38 pp., 9 x 6, pap.
- 362 —Annual report (2d) of the President and Directors to the Stockholders. Charleston, 1888. 57 pp., tab., 9 x 5, b. p.

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- 318 **MAINE.** Report of a survey and estimate for a railroad from Lewiston Falls to Rumford Falls, Me. W. H. Noble. Portland, 1849. 12 pp., 9 x 6, pap.
- 322 **MAINE CENTRAL R. R.** Report of a survey and estimate for a railroad from Portland to Augusta and Bath, in Maine. James Hayward. Bost., 1846. 18 pp., map, 9 x 6, pap.
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- 320 **MANSFIELD & SANDUSKY CITY R. R.** and Columbus & Lake Erie R. R. Report of the Joint Committee, to the Directors. Sandusky, Ohio, 1849. 37 + 1 pp., tab., 8 x 5, pap.
- 74 **MARSH, DANIEL.** Report on a marine railway around the Falls of Niagara, 1864. N. Y., 1864. 34 pp., pl., map, 9 x 6, pap.
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- 362 **MASSACHUSETTS—BOARD OF DIRECTORS OF INTERNAL IMPROVEMENTS.** Report on the practicability and expediency of a railroad from Boston to the Hudson River and from Boston to Providence, submitted to the General Court, Jan. 16th, 1829; to which are annexed the reports of the engineers, containing the results of their surveys, and estimates of the cost of constructing a railroad on each of the routes selected. Bost., 1829. 76 + 119 pp., map, 9 x 5, b. p.
- 147 **MEMPHIS & CHARLESTON R. R.** Exhibit of the affairs of the company. Memphis, 1854. 35 pp., map, 9 x 6, pap.
- MEXICAN NATIONAL RY.** Map of the M. N. Ry., including its proposed extension and connections. 1880. (See Qf-433.)
- Map of the M. N. Ry., showing the lines granted by the Mexican Government to the Mexican National Construction Co., Palmer-Sullivan Concession. 1881. (See Qf-442.)
- 358 —Palmer-Sullivan Concession. N. Y., 1881. 21 pp., map, 9 x 6, pap.
- 210 **MEXICAN SOUTHERN RY.,** to be constructed, under a charter from the Mexican Government, through the states of Vera Cruz and Oaxaca. R. B. Gorsuch. N. Y., 1881. 20 pp., map, 9 x 6, pap.
- MEXICO.** Map of Mexico showing railroads completed, proposed, and in construction. Leo Rosenberg 1881. (See Qf-385.)
- 146 —Railways in Mexico. Matias Romero. (*International Review*, Nov., 1882.) pp. 417-506, 10 x 7, pap.
- Transportation lines between the United States and Mexico, showing differences of elevation. 1884. (See Qf-439.)
- MICHIGAN SOUTHERN R. R.** Circular statement of the condition and prospects of the M. S. R. R., from Toledo and Munroe, at the head of Lake Erie, to Chicago, at the head of Lake Michigan. N. Y., 1849. 19 pp., 9 x 5, b. p. Ad-1, p. 816.
- Exhibit of the conditions and prospects of the railroad. N. Y., 1850. 16 pp., map, 9 x 5, b. p. no title-page. Ag-8, 332.
- 8 —Report on the Michigan Southern and Northern Indiana Railroads. J. B. Jervis. N. Y., 1850. 20 pp., map, 9 x 6, b. p.
- MIDLAND RAILROAD CORPORATION.** Prospectus. 11 pp., map, 8 x 5, b. p. no title-page. Ag-283, p. 307.
- 285 **MISSOURI.** Communication on the subject of a system of railroads for Missouri. Jefferson City, 1852. 8 pp., 10 x 6, pap.

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- 232 **MISSOURI PACIFIC R. R.** Great southwest: the southwestern railway system, the M. P. Ry., its leased and operated lines; being a comprehensive presentation of the Gould System of railways and of the productive power, growth and possibilities of the vast regions of country traversed by the various lines of this system. L. U. Reavis. St. Louis, 1882. 116 pp., pl., map, 9 x 6, pap.
- 72 **MOBILE & NORTHWESTERN R. R.** Facts and deductions regarding the railroad. N. Y., 1872. 12 pp., 9 x 6, pap.
- 334 **MOBILE, JACKSON & KANSAS CITY R. R.** Report of the location of the final line. T. W. Nicol. Mobile, Ala., 1889. 24 pp., 9 x 6, pap.
- 10 **MOHAWK VALLEY R. R.** Report of the survey and estimate of the M. V. R. R.; made to the Board of Directors, May 1st, 1851. E. H. Brodhead. N. Y., 1851. 60 + 1 pp., 9 x 6, b. p.
- 359 **MONTREAL NORTHERN COLONIZATION RY.** Report of exploration from Deep River to the Georgian Bay. Charles Legge. Montreal, 1874. 24 pp., map, 9 x 6, pap.
- 73 **MORRIS & ESSEX R. R.** Report of survey of proposed extension from Dover to Delaware Water Gap. Newark, 1850. 7 pp., 9 x 6, pap.
- NETHERLANDS.** Account of the Netherlands railways. L. C. van Kerkwyk. 1876. (See Cb-214, p. 86.)
- NEW JERSEY RAILROAD & TRANSPORTATION CO.** Circular to the stockholders, exhibiting the past operations, present situation and future prospects of the company; prepared by order of the Board of Directors. Newark, 1833. 23 pp., 9 x 5, b. p. Ac-139, p. 337.
- 292 **NEW ORLEANS.** New Orleans Belt Railroad; Union depot and Bridge: report; and report of B. M. Harrod; with other papers, January, 1890. E. L. Corthell. New Orleans, 1890. 35 pp., 9 x 6, pap.
- 82 **NEW ORLEANS & OHIO AIR-LINE R. R.** Report on the surveys, estimates, and income of the N. O. & O. A.-L. R. R., to the Commissioners; with an appendix of charters. J. J. Williams. Cin., 1868. 43 pp., map, 9 x 6, pap.
- NEW ORLEANS, OPELOUSAS & GREAT WESTERN R. R.** Map exhibiting the fixed location of the main trunk of the N. O., O. & G. W. R. R. of Louisiana; together with its proposed branches, connections and extensions. G. W. R. Bayley. 1859. (See Qf-381.)
- Report (1st) of the President and Directors to the Stockholders. 1853. (See Ag-7, p. 569).
- 408 **NEW YORK STATE.** The canal question: A criticism of the State railway project. E. P. North. N. Y., 1899. Newspaper slips.
- Colton's new railroad and township map of the state of New York; with parts of adjoining states, and Canada. 1856-57. (See Qf-444.)
- 194 —Report of the Commissioners appointed under the act of April 15th, 1828, relative to the construction of a railroad from the city of Boston to the Hudson River. No place, 1829. 64 pp., tab., 9 x 6, pap. (Senate, No. 113, 1829.)
- NEW YORK & ALBANY R. R.** Facts and suggestions relating to the N. Y. & A. R. R., with the proceedings of the railroad meeting in Canaan, N. Y., Feb. 3d, 1835; including the reports of the Berkshire delegation, and of Richard P. Morgan. Albany, 1835. 35 pp., map, 9 x 6, b. p. Cfh-12, p. 841.
- Memorial of the President transmitting the statement of E. F. Johnson, relative to the comparative merits of their route and the river route. (N. Y. Assembly, No. 87.) Albany, 1843. 11 pp., 9 x 6, b. p. Cfh-37, p. 957.
- 202 —Report and estimated cost, made from preliminary surveys. C. W. Wentz. Albany, 1867. 41 pp., 9 x 6, pap.
- 79 —Remarks relative to the auction business, duties, etc., and the N. Y. & A. R. R., to advance the prosperity of the city of New York. A. G. Thompson. N. Y., 1841. 8 pp., 8 x 5, pap.
- Report of the Chief Engineer of the N. Y. & A. R. R. E. F. Johnson. N. Y., 1839. 24 pp., 9 x 5, b. p. Ad-197, p. 221.
- Report on the communication of the Mayor relative to the N. Y. & A. R. R. New York (City) Joint Special Committee on New York and Albany R. R. no place, 1840. pp. 109-156, 8 x 5, b. p. (New York City, doc. No. 10.) Cfh-74, p. 459.
- 225 **NEW YORK & BOSTON INLAND R. R.** Prospectus. unpag'd, map, 10 x 8, pap. no title-page.
- 83 **NEW YORK & BOSTON R. R.** Report to the Central Committee of the N. Y. & B. R. R. Co. E. F. Johnson. Middleton, Conn., 1847. 64 pp., maps, 9 x 6, pap.
- NEW YORK & CROTON RIVER EXTENSION R. R.** Map and profile of located line of the N. Y. & C. R. E. R. R.; also of the New York, Westchester & Boston Ry. from P. M. Branch of N. Y. & Harlem R. R. to the Bronx River. W. R. Bergholz. no date. (See Qf-315.)



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- NEW YORK & ERIE R. R.** Address to the people of the state of New York. N. Y., 1837. 30 pp., 8 x 5, b. p. Af-2, p. 461.
- Address to the stockholders and the public in relation to the report of the Commissioners appointed by the Legislature of the state of New York to locate certain portions of the railroad. N. Y., 1847. 20 pp., 8 x 5, b. p. Af-2, p. 601.
  - Petition in relation to the different lines that have been surveyed in Sullivan and Broome Counties for the location of their road. no place, 1842. 17 pp., 9 x 6, b. p. no title-page. Ag-98, p. 700.
  - Petition to the Legislature of the state of New York for their consent, to the end that they may connect their road with a continuation of the line thereof into the state of Pennsylvania, in the counties of Susquehanna and Pike. no place, no date. 12 pp., map, 8 x 5, b. p. Ag-1, p. 39.
- 328 —Report in regard to the western extension of the N. Y. & E. R. R. C. L. Ward. Note: Report of the Chairman of a committee composed of delegates from the Erie & New York City R. R. Co., the Pittsburg & Erie Co., and the Atlantic & Great Western R. R. Co., assembled to formulate plans for combining and completing a trunk line of railway, from New York to St. Louis, and eventually to the Pacific Coast. N. Y., 1856. 8 pp., 9 x 6, pap.
- Report of a survey of a route for a railroad from the city of New York to Lake Erie; transmitted to the New York Assembly by the Secretary of State. Benjamin Wright. Albany, 1835. 99 pp., 9 x 6, b. p. no title-page. Cfh-10, p. 307.
  - Report of the Commissioners appointed by the act of May 11th, 1846, to locate certain portions of the N. Y. & E. R. R.; made to the Legislature Jan. 14th, 1847. N. Y., 1847. 41 pp., maps, 8 x 5, b. p. Ah-23, p. 753.
  - Report of the Minority of the Commissioners appointed to locate certain parts of the N. Y. & E. R. R., made to the Assembly. Albany, 1847. 35 pp., 8 x 5, b. p. Ag-282, p. 209.
  - Reports on the surveys, estimates, and revenues of the Ligett's Gap Railroad connecting the Lackawanna coal basin with the N. Y. & E. R. R. at Great Bend, to the President and Directors. W. H. Morell. Ithaca, N. Y., 1849. 48 pp., tab., 8 x 5, b. p. Af-2, p. 1159.
  - Sketch of the geographical route of a great railway by which it is proposed to connect the canals and navigable waters of New York, Pennsylvania, Ohio, Indiana, Illinois, Michigan, Missouri, and the adjacent states and territories. N. Y., 1830. ed. 2, with additions. 48 pp., map, 8 x 5, b. p. Af-2, p. 181.
  - Termination at Piermont. 7 pp., 9 x 5, b. p. no title-page. Af-216, p. 231.
- NEW YORK & HARLEM R. R.** Exposition of the advantages of a railroad between New York and Albany on the interior route. Allan Campbell. N. Y., 1847. 31 + 1 pp., tab., 8 x 5, b. p. Ah-23, p. 561.
- Map showing the route of the Harlem Railroad between New York and Albany and its connection with eastern and northern railroads. 1847. (See Qf-448.)
  - Reply of the Chief Engineer of the N. Y. & H. R. R. to a statement in relation to the two routes for a railroad between New York and Albany published March 2d, 1846. Allan Campbell. no place, 1846. 1 p., 13 x 10, b. p. Ah-23, p. 815.
- NEW YORK & NORFOLK R. R.** North and south air-line railroad from New York and Philadelphia to Norfolk, Va. May 31st, 1854. William Torrey, J. P. Allaire and W. E. Timmons. N. Y., 1854. 8 pp., 9 x 6, b. p. Ag-5, p. 567.
- Report of the N. Y. & N. air-line railroad, Sept., 1854. Charles Gould and others. N. Y., 1854. 8 pp., 9 x 6, b. p. Ag-5, p. 575.
- 206 **NEW YORK & OSWEGO MIDLAND R. R.** Report of the Chief Engineer of the N. Y. & O. M. R. R. to the Board of Directors. A. C. Powell. Norwich, N. Y., 1867. 16 pp., 8 x 5, pap.
- NEW YORK CENTRAL & HUDSON RIVER R. R.** Railroad map of the New York Central lines, embracing, in their through car lines, the N. Y. C. & H. R., Michigan Central, Lake Shore & Michigan Southern, C. C. & St. L. (Big Four), Boston & Albany, Pittsburg & Lake Erie. 1899. (See Qf-443.)
- 266 **NEW YORK, HOUSATONIC & NORTHERN R. R.** Prospectus: embracing a brief review of the general history of railroads in the state of New York, and the prospects of the proposed road viewed in the light thereof; together with a condensed report and estimates of the engineer. N. Y., 1864. 49 pp., maps, 9 x 6, pap.
- 87 —Prospectus; together with a condensed report and estimates of the engineer. N. Y., 1864. 49 pp., map, 9 x 6, pap.
- 378 **NEW YORK, PENNSYLVANIA & OHIO R. R.** Profiles, maps, and alignment of main tracks, yards, switches and side tracks of the N. Y., P. & O. R. R. and its branch lines; together with information referring to bridges, water supply, railroad and road crossings, culverts, grades and curves; also locations and lengths of divisions, subdivisions, and sections, made under the direction of Charles Latimer, Chief Engineer. Arthur Cobb. Cleveland, 1883. pl., maps, 14 x 11,  $\frac{3}{4}$  ro.

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- 221 **NEW YORK, WEST SHORE & BUFFALO RY.** New double-track, low-grade, direct trunk line between New York City, the Great Lakes and the West. N. Y., 1882. 29 pp., map, 9 x 6, pap.
- NEW YORK, WEST SHORE & CHICAGO R. R.** Report of the Engineer-in-Chief, May, 1871. (See Ag-111.)
- NEW YORK, WESTCHESTER & BOSTON RY.** Map and profile of located line of the New York & Croton River Extension R. R.; also of the N. Y., W. & B. Ry. from P. M. Branch of N. Y. & Harlem R. R. to the Bronx River. W. R. Bergholz. no date. (See Qf-315.)
- NEWPORT NEWS & MISSISSIPPI VALLEY R. R.** System of railway lines, railroad and steamship connections. 1887. (See Qf-445.)
- 151 **NORRISTOWN & FREEMANSBURG R. R.** Report of the Chief Engineer of the N. & F. R. R. Co.; together with the supplement to the act of Assembly incorporating said company. L. E. Corson. Norristown, Pa., 1853. 24 pp., 9 x 6, pap.
- 203 **NORTH MISSOURI R. R.** Report on the present state and prospects of the N. M. R. R.; upon examinations made for Jay Cooke & Co., June, 1866. W. M. Roberts. Phil., 1866. 54 pp., map, 9 x 6, pap.
- NORTH PENNSYLVANIA R. R.,** and its connections. 1853. (See Qf-440.)
- 148 —Philadelphia's great north route, to connect Philadelphia with north Pennsylvania, western New York, the Lakes, and Canada West. Phil., 1853. 48 pp., map, 9 x 6, pap.
- 345 —Profiles of the canals and railroads for transporting anthracite coal from the several coal fields to the city of New York. J. D. Steele. Phil., 1857. pl., 30 x 26, pap.
- 76 **NORTH SHORE RY. OF CANADA.** Return to an address of the Legislative Assembly praying for copies of all reports which have not yet been submitted to this House, since Mar. 1st, '78, on the location of the N. S. Ry., containing reports made by P. A. Peterson to Q., M., O. & O. Ry. Commrs. on the propriety of changing the Terrebonne location of the N. S. Ry. back to the original or Bout de l'Isle route. Review of W. Shanley's report on the "rival routes" of the N. S. Ry. by P. A. Peterson . . . and appx. Canada-Provincial Secretary. Quebec, 1880. 24 pp., pl., maps, 10 x 7, pap.
- NORTH SIMCOE RY.** Map of the N. S. Ry. and its connections. no date. (See Qf-446.)
- NORTHEAST & SOUTHWEST ALABAMA R. R.** Report upon the survey, location, and probable cost of the N. E. & S. W. A. R. R., made to the President and Directory. E. D. Sanford. Tuscaloosa, Ala., 1855. 32 pp., 9 x 6, b. p. Ah-26, p. 761.
- NORTHERN CENTRAL RY.** Appeal of the N. C. Ry. Co. from a final decree entered by the Court of Common Pleas of Northumberland County in a case in equity; counter statement of Appellee. Shamokin, Sunbury & Lewisburg R. R. Co. *vs.* Northern Central Ry. Co. Note: Case relates to the crossing at grade of the tracks of the N. C. Ry. by the Shamokin, Sunbury & Lewisburg R. R. 1883. (See Af-263.)
- Appeal of the N. C. Ry. Co. from a final decree entered by the Court of Common Pleas of Northumberland County on the 5th day of February, 1883, in a case in equity in said court; paper-book of Appellant. Shamokin, Sunbury & Lewisburg R. R. Co. *vs.* Northern Central Ry. Co. Note: Case relates to the crossing at grade of the tracks of the N. C. Ry. by the Shamokin, Sunbury & Lewisburg R. R. 1883. (See Af-183.)
- 10 **NORTHERN INDIANA R. R.** Circular statement of the condition and prospects of the N. I. R. R. N. Y., 1851. 18 pp., map, 8 x 5, b. p.
- 8 —Report on the Michigan Southern and Northern Indiana Railroads. J. B. Jervis. N. Y., 1850. 20 pp., map, 9 x 6, b. p.
- 425 **NORTHERN PACIFIC R. R.** Major-General Hazen on his post of duty in the Great American Desert, reviewed by an ex-Surveyor General. Note: A reply to a letter written by Gen. Hazen, published in the *New York Tribune*, in which he asserted that the country through which the N. P. R. R. would pass was sterile and worthless. N. Y., 1874. 32 pp., 9 x 6, pap.
- Map of the country tributary to the N. P. R. R.; comp. fr. English, Canadian and American official sources and original surveys. E. H. Knight. 1871. (See Qf-451.)
- Map of the N. P. R. R., its branches and allied lines. no date. (See Qf-447.)
- 80 —Memorial of the Board of Directors, Nov., 1867. Note: Petitions Congress for financial assistance. Hartford, 1867. 16 pp., 9 x 6, b. p.
- 86 —Its route, resources, progress and business; the new Northwest and its great thoroughfare. Jay Cooke & Co. Phil., no date. 47 pp., 9 x 6, pap.
- 22 —Railroad to the Pacific; northern route; its general character, relative merits, etc. E. F. Johnson. N. Y., 1854. ed. 2. 174 pp., pl., map, 9 x 6, ¾ cf.

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- 84 — Report of a Special Committee on the N. P. R. R., March 26th, 1868. New York Chamber of Commerce. N. Y., 1868. 55 pp., map, 9 x 6, pap.
- 88 — Report of Special Committee on the construction of the N. P. R. R. and telegraph line. (Legislature, 1867. House doc., No. 3.) no place, 1867. 16 pp., 9 x 6, pap.
- 81 — Report of the Chief Engineer on the unfinished portion of the N. P. R. R., made to the President of the Company, April 27th, 1874. W. M. Roberts. N. Y., 1874. 14 pp., map, 9 x 6, pap.
- 80 — Report of the Engineer-in-Chief to the Board of Directors of the N. P. R. R. Co. Nov., 1867. E. F. Johnson. Hartford, 1867. 56 pp., map, 9 x 6, b. p.
- 272 — Report of the Secretary, Jefferson Davis, communicating copies of all reports of the engineers and other persons employed to make explorations and surveys to ascertain the most practical and economical route for a railroad from the Mississippi River to the Pacific Ocean. U. S.-War Dept. (33d Cong., 1st Sess., Senate, ex. doc. No. 29.) Wash., 1854. 118 pp., map, 9 x 6, pap.
- 85 — Special report of a reconnoissance of the route for the N. P. R. R. between Lake Superior and Puget Sound *via* the Columbia River, made in 1869, under the direction of Jay Cooke & Co. W. M. Roberts. Phil., 1869. 51 pp., 9 x 6, pap.
- 136 — Trans-continental railways of the United States; remarks at the railway convention held at Oswego, N. Y., Oct. 6th, 1870. E. F. Johnson. Hartford, 1871. 36 pp., 9 x 6, pap.
- 431 **NORTHERN PACIFIC RY.** Rules for railway location and construction of the N. P. Ry. Co. E. H. McHenry. N. Y., 1899. 74 pp., il., 6 x 4, cl.
- 200 **NORTHERN RY. & COAL CO.** Coal lands. N. Y., 1865. 30 pp., pl., map, 9 x 6, pap.
- 264 **NOVA SCOTIA, NICTAUX & ATLANTIC CENTRAL RY.** Report to the Provincial Secretary of Nova Scotia on the survey and proposed construction of the N. S., N. & A. C. Ry. Martin Murphy. no place, 1875. 12 pp., 10 x 6, pap. no title page.
- 8 **OAKLAND & OTTAWA R. R.** Description, character, cost, location and prospect of the O. & O. R. R., from Detroit to Grand Haven. Robert Higham. Detroit, 1854. 17 + 3 pp., 9 x 6, b. p.
- 5 **OGDENSBURG & LAKE CHAMPLAIN R. R.** Report in relation to the O. & L. C. R. R. W. R. Casey. Albany, 1842. 23 pp., 9 x 6, b. p.
- Report of the Chief Engineer on the survey of a railroad from Ogdensburg to Lake Champlain. E. H. Brodhead. 1841. (See Ab-5, p. 375.)
- 5 — Report of the Commissioners appointed to cause a survey to be made of the several routes for a railroad from Ogdensburg to Lake Champlain. Albany, 1841. 115 pp., map, 9 x 6, b. p.
- 3 — Report of the New York State Committee on Railroads on the subject of bridging Lake Champlain at Rouse's Point, Jan. 28th, 1851. no place, 1851. 114 pp., map, 9 x 6, b. p.
- 3 — Statement in regard to bridging Lake Champlain . . . Gen. Davis' speech against a bridge, etc.; with an appendix. Troy, N. Y., 1851. 14 pp., 9 x 6, b. p.
- OHIO.** New map of the state of Ohio; exhibiting the sections, fractional sections, townships, cities, villages, post-offices, railroads, canals, turnpikes and plank roads. E. Mendenhall & Co., pub. 1853. (See Qf-452.)
- Railroad and township map of the state of Ohio. J. H. Colton, pub. 1854. (See Ag-6, p. 259.)
- 8 **OHIO & MISSISSIPPI R. R.** Geographical, geological and statistical relations of the O. & M. R. R. E. D. Mansfield. no place, no date. 32 pp., 9 x 6, b. p.
- Report and statistical documents pertaining to the O. & M. R. R., extending from Cincinnati to St. Louis. O. M. Mitchel. Cin., 1853. 30 pp., 9 x 6, b. p. Ah-28, p. 461.
- OHIO & PENNSYLVANIA R. R.** Exhibit of the affairs of the O. & P. R. R. Co. Pittsburg, 1850. 20 pp., map, 9 x 5, b. p. Ag-8, p. 46.
- Report of the Chief Engineer to the President and Directors; 1st-2d; 1849-50. (See Ag-8, pp. 67 and 112.)
- OREGON.** Indexed map, showing the railroads in the state. Rand, McNally & Co. 1879. (See Qf-449.)
- 2 **OSWEGO & UTICA R. R.** Report of the Chief Engineer to the Board of Directors, September, 1837. N. Y., 1837. 23 pp., map, 9 x 5, b. p.
- 184 **PACIFIC R. R.** Address to the Board of Directors of the P. R. R. Co., at their first meeting, January 31st, 1850; and also a memorial to Congress, and the act of incorporation. Thomas Allen. St. Louis, 1850. 45 pp., 8 x 5, pap.
- 279 — Highway to the Pacific; grand national central highway; speech on introducing a bill for the construction of a grand national central highway from St. Louis to San Francisco, delivered in the Senate of the United States, Dec. 16th, 1850. T. H. Benton. no place, no date. 16 pp., 9 x 6, pap.



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- Letter upon the lands and minerals of southwest Missouri; Pacific Railroad, South-west Branch. G. C. Swallow. 8 pp., 9 x 5, b. p. no title-page. Af-217, p. 685.
- Statement relating to Southwest Branch, lands, bonds, etc. N. Y., 1857. 22 pp., 9 x 5, b. p. Af-217, p. 643.
- PANAMA.** Proyecto de ferro-carril. George de Polignac. Note: From David, Costa Rica, to the city of Panama. no date. (See Qf-450.)
- PANAMA R. R.** Map of the Isthmus of Panama representing the line of the railroad, reduced and compiled from the original survey by the Crown Surveyor, Jamaica. 1857. (See Qf-462.)
- 3 —Prospectus. N. Y., 1849. 62 pp., map, 9 x 6, b. p.
- Report relative to the "Memorial of William H. Aspinwall, John L. Stevens and Henry Chauncey, praying aid from the Government of the United States to construct a railroad across the Isthmus of Panama." (30th Cong., 2d Sess., House rep. No. 26.) no place, 1849. 46 pp., 9 x 6, b. p. Af-3, p. 17.
- 155 **PARANA & CORDOVA R. R.** Report on a survey for a line of railroad between the city of Cordova and some point on the River Parana, Argentine Confederation. Allan Campbell. Lond., 1857. 67 pp., map, 8 x 5, pap.
- 287 **PARIS, GEORGETOWN & FRANKFORT R. R.** Prospectus. 1881. Cambridge, 1881. 14 pp., 10 x 7, pap.
- 144 **PASADENA & MT. WILSON R. R.** Scenes on the line of the Pasadena Mountain Ry.; and from oranges to snow. J. G. W. James. Pasadena, Cal., 1893. unpagcd, pl., 9 x 6, pap.
- 164 **PEEKSKILL & CARMEL R. R.** Report of Executive Committee having charge of the survey of the railway. Peekskill, N. Y., 1860. 15 pp., 9 x 6, pap.
- 90 **PENNSYLVANIA & WESTERN R. R.** Statement of the prospects, advantages, objects, conditions and workings of the company; 1873. Phil., 1873. 35 pp., pl., map, 9 x 6, pap.
- PENNSYLVANIA R. R.** Annual report of the Chief Engineer; 1st; 1848. (See Ag-9, p. 1.)
- Discussions before the Committee of the House and before the Committee of the Senate regarding sites for stations in Washington for the Pennsylvania and Baltimore & Ohio R. R. Cos., March, 1872. United States-(House) Committee on District of Columbia. no place, 1872. 20 pp., 8 x 5, b. p. Ae-2, p. 547.
- 883 —Resurvey of the Williamsport Division of the Pennsylvania R. R. G. D. Snyder. Note: Type-written copy, accompanied by photographs. 16 + 4 pp., 5 pl., 5 phot., 14 x 8, pap. no title-page.
- 406 **PENNSYLVANIA, WILMINGTON & BALTIMORE R. R.** Garden farm lands of the Peninsula. Note: A guide-book to the country through which the railroad passes. no place, no date. 38 pp., il., map, 9 x 6, pap.
- 183 **PEORIA & HANNIBAL R. R.** Chief Engineer's report of the P. & H. R. R., containing the charter, ordinances, estimates, and condition of the road, the statistics of the country, and a map showing its location and connections. W. G. Wheaton. Peoria, Ill., 1858. 1 v., map, 9 x 6, pap.
- PEORIA & OQUAWKA R. R.** Report to the President and Directors of the P. & O. R. R. Co. R. P. Morgan. Burlington, 1852. 20 pp., 8 x 5, b. p. Ah-24, pp. 853.
- 153 **PHILADELPHIA.** Letters to Job R. Tyson on the railway connections of Philadelphia with the Central West. E. D. Mansfield. Phil., 1853. 36 pp., 9 x 6, pap.
- 97 **PHILADELPHIA & ATLANTIC CITY RY.** Prospectus. Phil., 1877. 25 pp., map, 9 x 6, pap.
- PHILADELPHIA & COLUMBIA R. R.** Report of the Superintendent of the railroad relative to the condition and progress of the work in 1829. (See Zj-169, p. 112.)
- 365 **PHILADELPHIA & POTTSVILLE R. R.** Sketch of a railway judiciously constructed between desirable points, exemplified by a map and an appendix of facts. Egbert Hedge. N. Y., 1841. 125 pp., maps, 9 x 6, cl.
- 116 **PHILADELPHIA & READING R. R.** Catalogue of specimens of the mineral and agricultural products from the line of the railroad, of rails, etc., manufactured at the P. & R. R. R. rolling-mill, and of models of bridges in use on the line; exhibited at the U. S. Centennial Exhibition, Philadelphia, 1876. Note: pp. 35-38 wanting. Phil., 1876. 44 pp., pl., 9 x 6, pap.
- 375 —Reading railroad: Its advantages for the cheap transportation of coal as compared with the Schuylkill navigation and Lehigh Canal. X. Pseud. Nos. 1-8. Phil., 1839. 43 pp., map, 11 x 9, pap.
- Topographical plan and profile of the P. & R. R. R., with plates illustrating the bridges, stations, etc., on the line of the road. 1856(?). (See Qf-461.)
- 373 **PICTOURY.** Report as to the extension of the railway from Truro to Pictou. James Laurie. Halifax, 1859. 40 pp., 11 x 9, pap. no title-page.
- 374 —Report on surveys for the P. Ry., *via* Earltown; with some remarks on the trunk line. James Laurie. Halifax, 1860. 24 pp., map, 11 x 9, pap.

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- 409 **PITTSBURG RAILROAD & COAL CO.** Charter and amendments of the P. R. R. & C. Co.; together with a report on their coal lands and other property, and a plan of organization. St. Louis, 1864. 19 pp., 8 x 5, pap.
- 222 **PITTSBURGH & LAKE ERIE R. R.** Statement of the location and business prospects of the . . . railroad; with its connections and advantages. Pittsburg, 1876. 14 pp., map, 9 x 6, pap.
- 223 **PITTSBURGH EAST END R. R.** Prospectus, 1883. Pittsburg, 1883. 14 pp., map, 9 x 6.
- 204 **PLACERVILLE & SACRAMENTO VALLEY R. R.** Report on the survey, cost of construction, and estimated revenue of the P. & S. V. R. R. of California. F. A. Bishop. San Fran., 1863. 47 pp., 9 x 6, pap.
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- 311 **PORTSMOUTH & NEWBURYPORT R. R.** Report on the survey of the P. & N. R. R. Joshua Barney. Portsmouth, N. H., 1836. 12 pp., map, 8 x 5, pap.
- 145 **PORTUGAL.** Common roads, railways, and river communications. F. A. Pimental. Lisbon, 1893. 49 pp., 10 x 7, pap.
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- PROVIDENCE, R. I.** Map showing the re-arrangement of the railroad stations and tracks in the city of Providence, proposed by the Commissioners of the Cove Lands, 1873. S. B. Cushing. (See Qf-453.)
- 307 **PROVIDENCE & BRISTOL R. R.** Report of the Committee appointed by the citizens of Providence, Warren and Bristol on the P. & B. R. R. A. D. Smith and others. Providence, 1852. 16 pp., 9 x 6, pap.
- 315 **PROVIDENCE & PLAINFIELD R. R.** Report on the surveys of the P. & P. R. R. James Laurie. Providence, 1848. 31 pp., map, tab., 9 x 6, pap.
- 27 **PROVIDENCE & WORCESTER R. R.** Report of the Commission of expert engineers on railroad terminal facilities. Providence, 1888. 17 + 1 pp., pl., map, 9 x 6, pap.
- 439 **PRUSSIA.** Normalien zu Vorarbeiten für Eisenbahnanlagen im Königreich Preussen. Ber., 1871. 2 pl., 58 x 26, pap.
- Post- und Eisenbahn-Karte von dem preussischen Staate und den angränzenden Ländern. 1865. (See Qf-262.)
- 3 **QUEBEC & RICHMOND RY.** Annual Report of the Chief Engineer to the Stockholders; presented 18th Jan., 1853. Quebec, 1853. 24 pp., 8 x 5, b. p.
- 96 **QUEBEC HARBOR COMMISSIONERS.** Quebec railway and harbor works. no place, 1879. 13 pp., map, 10 x 6, pap.
- 233 **QUEBEC, MONTREAL, OTTAWA & OCCIDENTAL RY.** Proposed railway ferry over the St. Lawrence, connecting the Q., M., O. & O., and the Intercolonial Railways. No. 2. Note: Drawing No. 1, wanting. sheet, 15 x 9, pap.
- 368 **QUEENSLAND, AUSTRALIA.** Queensland railways; Central and Northern Division, Clermont Railway, Section No. 2; plan, section, bridges, general drawings. Robert Ballard. no place, 1882 (?). unpagcd, 12 x 10, cl.
- 379 **QUEENSLAND NORTHERN RY.** Plan and section, mountain track over main range, 49m. 40ch. to 56m. Robert Ballard. unpagcd, 10 x 11, cl. no title-page.
- RANKIN, ROBERT G. and others.** Report of the Commissioners for a railroad from Fishkill Landing to the Connecticut state line, Dec., 1848. Fishkill Landing, N. Y., 1848. 14 pp., 8 x 5, b. p. Ad-1, p. 532.
- 4 **REMARKS ON THE PRACTICABILITY AND EXPEDIENCY OF ESTABLISHING** a railroad on one or more routes from Boston to the Connecticut River. Boston, 1827. 71 pp., 9 x 5, b. p.
- RHEINISCHE EISENBahn.** Uebersichtskarte der Rheinischen Eisenbahn und ihrer Nachbarbahnen. no date. (See Qf-455.)
- 377 **RIASHK-VIASMA R. R.** Collection of views taken along the route of the R.-V. R. R. no place, no date. 26 pp., phot., 14 x 16, cl. no title-page.
- 376 —Profile of main line. Note: Text in Russian. no place, no date. 2 v., 13 x 9, cl.
- 224 **RICHMOND & DANVILLE R. R.** Catalogue of the minerals and woods of the regions of the States of Virginia, North and South Carolina and Georgia, traversed by the lines of the railroad, displayed in its exhibits, 1881-89. Richmond, 1889. 34 pp., 9 x 6, pap.
- 316 **ROCK ISLAND & PEORIA R. R.** Statement of the condition and prospect of the company, with a copy of the trust mortgage, etc., July, 1856. Rock Island, Ill., 1856. 11 + 1 pp., 8 x 6, pap.
- 289 **ROCKFORD, ROCK ISLAND & ST. LOUIS R. R.** Prospectus. N. Y., 1868. 32 pp., 9 x 6, pap.

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- 410 **RUSSIA.** The Russian Empire and the Trans-Siberian Railway. United States-Bureau of Statistics. Note: From the Summary of commerce and finance, Apr., 1899. no place, 1899. 4 pp. + pp. 2503-2599, map, 12 x 9, pap.
- *Spoorwegkaart van Rusland naar de nieuwste bronnen vervaardigd.* J. Pik. Note: Contains list of the railroad companies of Russia. no date. (See Qf-456.)
- SACKET HARBOR & SARATOGA R. R.** Engineer's report of the preliminary surveys of the S. H. & S. R. R. B. P. Tilden, Jr. ed. 2. Bost., 1851. 15 pp., 9 x 6, b. p. Fg-6, p. 141.
- 110 — Facts concerning the bonds and stock, the railroad and lands. N. Y., 1854. 12 pp., 9 x 6, pap.
- 162 — Report of the different routes and estimates of the S. H. & S. R. R., Oct., 1853. A. F. Edwards. Saratoga Springs, 1853. 10 + 3 pp., map, 9 x 6, pap.
- 312 **SACO RIVER R. R.** Survey of S. R. R. R.; and report on statistics, Oct., 1853. James Hall. Saco, 1853. 14 pp., 8 x 5, pap.
- SACRAMENTO VALLEY R. R.** Report of the Chief Engineer on the preliminary surveys and future business of the S. V. R. R. Sacramento, 1854. 21 pp., 8 x 5, b. p. Ah-26, p. 1173.
- Report on the preliminary surveys and future business of the S. V. R. R. T. D. Judah. Sacramento, 1854. 24 pp., 8 x 5, b. p. Af-7, p. 641.
- 50 **ST. CLAIR R. R. & COAL CO.** Geological report for St. C. R. R. & C. Co.; letter of Professor Silliman, Jr.; analysis of coal, etc. J. P. Lesley. N. Y., 1855. 12 pp., maps, 9 x 6, pap.
- 109 **ST. CROIX & LAKE SUPERIOR R. R.** Prospectus, Sept., 1862. N. Y., 1862. 20 pp., map, 9 x 6, pap.
- 108 **ST. LOUIS & IRON MOUNTAIN R. R.** Prospectus; first mortgage bonds. N. Y., 1867. 12 + 1 pp., map, 9 x 6, pap.
- 106 **ST. PAUL & CHICAGO RY.** Statement respecting the issue of its first mortgage land grant sinking fund bonds amounting to four millions of dollars. St. Paul, 1867. 15 pp., map, 8 x 5, pap.
- 207 **SAN FRANCISCO & ALAMEDA R. R.** Pacific terminus railroad; report of surveys for the extension of the S. F. & A. R. R. to connect with the Western Pacific R. R., and for a line from the San Jose to the Twelve Mile House in the Santa Clara Valley with a branch to the Quicksilver mine of New Almaden. E. A. Flint. Note: Maps and profiles accompanying report, wanting. San Fran., 1866. 24 pp., 9 x 6, pap.
- 157 **SAN FRANCISCO & OCEAN SHORE R. R.** Report upon the S. F. & O. S. R. R. Lyman Bridges. N. Y., 1881. 16 pp., map, 9 x 6, pap.
- 112 **SAN DIEGO & GILA R. R.** Statement of the S. D. & G., Southern Pacific and Atlantic R. R. Co. T. S. Sedgwick. N. Y., 1871. 1 p., 15 x 10, pap. no title-page.
- ST. PETERSBURG & MOSCOW R. R.** Map and profile of the railroad. no date. (See Qf-457.)
- SANTIAGO & VALPARAISO RY.** Documents relating to the project of a railroad from Santiago to Valparaiso, Chile, South America. Chile-Minister of the Interior and others. Valparaiso, 1852. 89 pp., 9 x 6, b. p. Ah-24, p. 589.
- 111 **SAVANNAH & MEMPHIS R. R.** Prospectus. N. Y., 1871. 52 pp., map, 9 x 6, pap.
- SCHUYLKILL HAVEN & LEHIGH RIVER R. R.** Report of Commissioners; with report of survey by Alex. W. Rea. Phil., 1857. 16 pp., 9 x 6, pap. Ag-124.
- 372 **SCHWEIZERISCHE CENTRALBAHN.** Bahnbau Section 13: Liestal-Oensingen, Liestal-Waldenburg; Loos No. 3. Contents: v. 1, Voranschlag für offene Linie Mümliswilser Seite. v. 2, Brücken, Durchlässe und Tunnel-Profil. v. 3, Voranschlag für Wasserfallen Tunnel. v. 4, Situationsplan. Gemeinde Reigoldswil. v. 5, Längenprofil von Profil No. 119 bis No. 184. Wasserfallenbahn. v. 6, Situationsplan. Gemeinde Mümliswil. v. 7, Voranschlag für offene Linie Reigoldswiler Seite. v. 8, Allgemeine und besondere Bedingungen. v. 9, Geologisches Längenprofil des Wasserfallen Tunnels. v. 10, Querprofile der Limmernbach-Correction bei Mümliswil. F. Rinecker. no place, 1874. 10 v., 13 x 8, pap.
- 440 **SCHWEIZERISCHE NORDOSTBAHN-GESELLSCHAFT.** Atlas der schweizerischen Nordostbahn, alte Linien. Winterthur, 1876. 97 pl., 24 x 22, cl.
- 436 — Bericht über die von der Abtheilung "Bahnbau" der schweizerischen Nordostbahn-Gesellschaft zur Ausstellung gebrachten Gegenstände. (Weltausstellung, Philadelphia, 1876.) Contents: Pt. 1, Bericht. Pt. 2, Eine Mappe, enthaltend: Uebersichtsplan mit horizontal Curven. Pt. 3, Dazugehöriges Längenprofil. Pt. 4, Ein Band mit 82 Blatt Normalplänen für den Bahnbau. Pt. 5, Eine Mappe, enthaltend: Uebersichtliche Darstellung der in den Jahren 1872-1876 ausgeführten grösseren Brücken, nebst Zusammenstellung der Dimensionen, Kosten und Probelastungen. Pts. 6-7, Photographien von ausgeführten Bauten. Zürich, 1876. 7 v. in 3, il., pl., maps, 18 x 14, cl.
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- SEYMOUR, JAMES.** Report of an experimental survey of part of the proposed railroad from the Wyoming and Lackawanna coal valleys by way of Carbondale, Lanesboro, Great Bend, and Chenango Point to Oswego, N. Y.; with other documents, etc., as communicated to the convention at Ithaca, 11th of May, 1831. Montrose, Pa., 1831. 32 pp., 9 x 6, b. p. Cfb-9, p. 495.
- Report of the examinations of three routes for railways; from the Lackawanna coal valley to the states' line, below the Great Bend, at the Susquehanna River. Carbondale, 1833. 7 pp., 9 x 6, b. p. See Cfg-2, p. 525.
- SHAMOKIN, SUNBURY & LEWISBURG R. R. CO. vs. NORTHERN CENTRAL RY. CO.** Appeal of the N. C. Ry. Co. from a final decree entered by the Common Pleas of Northumberland County on the 5th day of February, 1883, in a case in equity in said Court; paper-book of Appellant. Note: Case relates to the crossing at grade of the tracks of the N. C. Ry. by the S., S. & L. R. R. 1883. (See Af-183.)
- Appeal of the N. C. Ry. Co. from a final decree entered by the Court of Common Pleas of Northumberland County in a case in equity; counter statement of Appellee. Note: Case relates to the crossing at grade of the tracks of the N. C. Ry. by the S., S. & L. R. R. 1883. (See Af-263.)
- Common Pleas of Northumberland County, in equity; testimony taken August 8th to 11th, 1882. Note: Case relative to the crossing of the railroads at Sunbury. 1882. (See Af-270.)
- 105 **SHENANDOAH VALLEY R. R.** Report of H. Haupt and J. P. Lesley to the S. V. R. R. Co. Phil., 1870. 46 pp., 9 x 6, pap.
- 104 —Report of the preliminary surveys for the S. V. R. R., July, 1870. W. W. Wright. no place, 1870. 11 pp., 9 x 6, pap.
- 410 **SIBERIA.** The Russian Empire and the Trans-Siberian Railway. United States-Bureau of Statistics. Note: From the Summary of Commerce and Finance, Apr., 1899. no place, 1899. 4 pp. + pp. 2503-2599, map, 12 x 9, pap.
- SOMERVILLE & EASTON R. R.** Proposed railroad to Easton, Pennsylvania. 22 pp., map, 8 x 5, b. p. no title-page. Af-12, p. 35.
- 198 —Report of the Commissioners named by the Legislature of the State of New Jersey, in the act incorporating the S. & E. R. R., passed February 26th, 1847. Elizabethtown, 1847. 22 pp., map, 9 x 6, pap.
- SOUTH AMERICA.** Map of the railways of South America and of the international trunk lines; compiled and drawn up under the patronage of the Ministry of Public Works of the Oriental Republic of Uruguay. J. J. Castro and Felix Elena. 1893. (See Qf-410.)
- 381 **SOUTH BRUNSWICK TERMINAL R. R.** and South Brunswick & Cordele R. R. Prospectus. N. Y., 1899. 15 pp., pl., maps, 12 x 8, pap.
- SOUTH CAROLINA CANAL & R. R. CO.** Report to the Board of Directors of the S. C. C. & R. R. Co., relative to the construction of the road. Horatio Allen. no place, 1832. 8 pp., 9 x 6, b. p. no title-page. Cfg-2, p. 533.
- 6 **SOUTH JERSEY CENTRAL & AIR LINE R. R.** Debates in the General Assembly on the S. J. C. & A. L. R. R. bill and the extension of the charter of the Camden & Amboy R. R. Co.; also speeches by Stephen Congar in the Senate on the Extension bill, 1854. Trenton, N. J., 1854. 80 pp., 8 x 5, b. p.
- 6 —Speech on the S. J. C. & A. L. R. R. bill, in the House of Assembly, March 7th, 1855. William Parry. Trenton, N. J., 1855. 12 pp., 9 x 5, b. p.
- 158 **SOUTH PENNSYLVANIA R. R.** Report on the S. P. R. R.; also its charter and supplements. Harrisburg, 1869. 27 pp., 9 x 6, pap.
- 288 **SOUTHERN MARYLAND R. R.** Prospectus. Wash., 1881. 26 pp., map, 9 x 6, pap.
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- 95 **SOUTHERN R. R. OF CANADA.** Report on the S. R. R. of Canada, to the Municipalities of the counties of Essex and Kent and the inhabitants of the town of Amherstburg, Feb. 14th, 1855. Wm. Scott. no place, 1855. 24 pp., map, 9 x 6, pap.
- STATEN ISLAND R. R.** Reports of the Committee and Engineer to the President and Directors, embracing surveys and estimates. N. Y. 1852. 28 pp., map, 9 x 6, b. p. Ah-24, p. 969.
- 384 **SUMATRA.** Le Chemin de Fer à Crémaillère à Sumatra. J. W. Post. La Haye, 1892. 28 pp., il, pl., 13 x 10, pap.
- Réseau des Chemins de Fer de l'État à Sumatra. J. W. Post. 1891. (See Ae-338.)
- 107 **SUNBURY & ERIE R. R.** Report of the Sub-committee deputed to visit Erie, etc., on the subject of a proposed subscription by the Councils of the city of Philadelphia to the capital stock of the S. & E. R. R. Co. Dec. 14th, 1852. Philadelphia—Councils. Phil., 1852. 92 pp., map, 9 x 6, pap.
- SUSQUEHANNA R. R.** Report of the Committee composing the delegation, appointed by the citizens of Baltimore, to the S. R. R. Convention. J. P. Kennedy. Balt., 1852. 16 pp., map, 9 x 6, b. p. Ag-4, pp. 639.

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- SWEDEN. Railway map of Sweden. C. P. Sandberg. 1886. (See Qf-458.)
- 1 SYRACUSE & BINGHAMTON R. R. Report of the Chief Engineer made to the Directors, 1852-53. Syracuse, 1852-53. 2 v., 8 x 5, b. p.
- 22 TEHUANTEPEC INTER-OCEAN R. R. A commercial and statistical review, showing its local, national and international features and advantages. A. D. Anderson. N. Y., 1880. 90 pp., maps, 9 x 6, cl.
- 241 TEHUANTEPEC RY. Confidential circular setting forth the advantages of the Tehuantepec as compared with other isthmian routes. N. Y., 1873. 9 + 1 pp., map, 9 x 6, pap. no title-page.
- 19 — Location, features and advantages of the company under the La Sere Grant of 1869. N. Y., 1869. 88 pp., maps, 9 x 6, mor.
- Map showing the surveys and profiles made for a railway across the Isthmus of Tehuantepec. 1869. (See Qf-253.)
- Maps illustrating the Isthmus of Tehuantepec. 1852. (See Qf-463.)
- 454 — National Railroad of Tehuantepec; historical and descriptive report. Manuel Rivera. Note: Read before the International Congress of Engineers at Chicago, 1893. Text in English and Spanish. no place, 1893. 2 v., map, 13 x 8, pap.
- 251 — Report upon the location of the Tehuantepec Railway and carriage road across the Isthmus of Tehuantepec, with the map and profiles as approved by the Government of Mexico, July 1st, 1870; and report on the subject of a ship canal across the Isthmus of Tehuantepec to unite the Atlantic and Pacific Oceans. J. J. Williams. no place, 1870. 16 pp., map, 9 x 6, pap.
- 260 — Tehuantepec Isthmus Railway. Matias Romero. Wash., 1894. 30 pp., map, 9 x 7, pap.
- 242 TEHUANTEPEC SHIP RY. Atlantic and Pacific ship-railway across the Isthmus of Tehuantepec, in Mexico, considered commercially, politically and constructively. E. L. Corthell. N. Y., 1886. 80 pp., il., 9 x 6, pap.
- 237 — Capt. Eads' great ship railway. Illustrated Scientific News. (*Illustrated Scientific News*, Vol. 1, No. 3, 1881.) N. Y., 1881. pp. 65-72, il., 11 x 8, pap.
- 397 — Certainty of the Nicaragua Canal contrasted with the uncertainties of the Eads' ship-railway. Daniel Ammen. Wash., no date. 33 pp., pl., 9 x 6, pap.
- 396 — Errors and fallacies of the inter-oceanic transit question; to whom do they belong? Daniel Ammen. N. Y., no date. 68 pp., pl., 9 x 6, pap.
- 259 — Exposition of the errors and fallacies in Rear-Admiral Ammen's pamphlet entitled the "Certainty of the Nicaragua Canal contrasted with the uncertainties of the Eads' ship-railway," April, 1886. E. L. Corthell. Wash., 1886. 52 pp., il., 9 x 6, pap.
- 193 — Ferrocarril de Tehuantepec; construccion de la via y trabajos hidraulicos; concesiones, obligaciones y prohibiciones. 1879. Mexico-Presidente. 21 pp., 9 x 6, pap. no title-page.
- 252 — Inter-oceanic problem and its scientific solution; an address before the American Association for the Advancement of Science, thirty-fourth meeting, Ann Arbor, Mich., August 26th, 1885. E. L. Corthell. N. Y., no date. 40 pp., pl., map, 9 x 6, pap.
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- 188 — Isthmian ship-railway. J. B. Eads. (*North American Review*. March, 1881.) N. Y., 1881. pp. 223-238, 9 x 6, pap.
- 263 — Isthmian ship-railway; an address before the New York Academy of Sciences, December 20th, 1886. E. L. Corthell. 25 pp., 9 x 6, pap. no title-page.
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- 227 — Resolutions of the . . . convention, indorsing the construction of the T. S. Ry. projected by James B. Eads; with address by the Chief Engineer of the railway. American Shipping Convention. no place, 1886. 16 pp., 9 x 6, pap. no title-page.
- 256 — Review of the proposed T. S. Ry. S. L. Phelps. Wash., 1881. 75 pp., map, 9 x 6, pap.
- 246 — Ship Railway. (Reprint of an article in the *New Orleans Times Democrat* on the T. S. Ry.) 6 pp., 9 x 6, pap. no title-page.
- 238 — Statement before the Sub-committee of the Committee on Commerce of the House of Representatives, in reference to the commercial and other advantages of the ship-railway at the Isthmus of Tehuantepec, in Mexico, February 5th, 1886. E. L. Corthell. Wash., 1886. 23 pp., 9 x 6, pap.
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- 248 — E. L. Corthell. Phil., no date. 33 pp., pl., map, 9 x 6, pap.
- 249 — N. Y., 1883. 21 pp., map, 9 x 6, pap.
- 243 — A review of its geographical, commercial and political features and advantages. A. D. Anderson. N. Y., 1884. 22 pp., map, 9 x 6, pap.
- 258 — Answer correcting the erroneous statement of the promoters of the Nicaragua Canal scheme. J. B. Eads. Note: Statement made to Chairman of Committee on Foreign Affairs, House of Representatives, in reply to S. L. Phelps. Wash., 1882. 26 pp., 9 x 6, pap.
- 257 — Its practicability and commercial features. (Reprinted from the *Mexican Financier*, December, 1884.) N. Y., 1884. 43 pp., pl., 9 x 6, pap.
- 239 — The proposed Atlantic and Pacific ship-railway. (Reprinted from the *London Times*, August 21st, 1884.) 10 pp., 9 x 6, pap. no title-page.
- 240 — Tonnage for the American trans-isthmian route at Tehuantepec; prepared from official data, 1886. E. L. Corthell. 4 pp., 9 x 6, pap. no title-page.
- 137 **TEXAS & PACIFIC RY.** Preliminary surveys for the T. & P. Ry. C. W. Durham. Note: Paper read before the Civil Engineers' Club of the Northwest, Feb. 9th, 1874. 8 pp., 7 x 5, pap. no title-page.
- 138 — Proceedings, Nov. 23d and 24th, 1875, in regard to the construction of the T. & P. Ry. as a southern transcontinental line from the Mississippi Valley to the Pacific Ocean on the Thirty-second parallel of latitude. St. Louis National Railroad Convention. St. Louis, 1875. 208 pp., map, 9 x 6, pap.
- TEXAS-TOPOLOBAMPO PACIFIC R. R. & TELEGRAPH CO.** T. T. P. R. R. and Telegraph line, Mexico. Note: Railroad map of Mexico. no date. (See Qf-387.)
- 245 — Topolobampo Pacific Railway: A commercial and statistical review, showing its local, transcontinental, international and inter-oceanic features and advantages. A. D. Anderson. Wash., 1882. 109 pp., pl., maps, 9 x 6, pap.
- TEXAS WESTERN R. R.** Survey of route; its cost and probable revenue; in connection with the Pacific Railway, nature of the country, climate, mineral and agricultural resources, etc. A. B. Gray. Cin., 1855. 108 pp., map, 9 x 6, b. p. Ah-26, p. 987.
- 313 **TOLEDO & COLUMBUS R. R.** Report of the President and Chief Engineer to the Incorporators. Toledo, 1868. 22 pp., 9 x 6, pap.
- TOLEDO & ILLINOIS R. R. and LAKE ERIE, WABASH & ST. LOUIS R. R.** Exhibit, March 1st, 1854. N. Y., 1854. 13 + 2 pp., map, 9 x 5, b. p. Ag-6, p. 277.
- 115 **TOLEDO, WABASH & WESTERN R. R.** Advantages of settling on the line of the T., W. & W. R. R.; something for the immigrant. E. D. Mansfield. Cin., 1875. 20 pp., 9 x 6, pap.
- 338 **TORONTO.** Report to the Board of Trade of the city of Toronto on the terminal facilities of the port, August, 1889. A. M. Wellington. Toronto, 1889. 30 pp., map, 9 x 6, pap.
- 337 **TORONTO & GEORGIAN BAY SHIP RY.** Facts for the people. Toronto, 1888 (?) 12 pp., map, 9 x 6, pap.
- TORONTO, SIMCOE & HURON RY.** Report of the committee appointed for the purpose of securing the votes of the assessed inhabitants of the city of Toronto in favour of the issue by the corporation of £100,000 in city debentures, in aid of the T., S. & H. Ry. J. M. Strachan. no place, 1850. 8 pp., 8 x 5, b. p. Ah-24, p. 889.
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- 3 **TROY & BOSTON R. R.** Circular, 1852. 7 pp., map, 9 x 6, b. p. no title-page.
- 181 **TROY & GREENFIELD R. R. AND HOOSAC TUNNEL CO.** Boston and the West. Notes: Papers showing the need of the construction of the T. & G. R. R. Bost., 1851. 15 pp., 9 x 6, pap.
- 182 — Hoosac Tunnel route compared with the Western Railroad. A. R. Field. Lowell, Mass., 1866. 16 pp., 10 x 6, pap.
- 180 — How to pay for the Hoosac Tunnel by fixing the terminus of the tunnel line on the South Boston flats belonging to the Commonwealth. Edward Atkinson. Bost., 1873. 16 pp., 9 x 6, pap.
- TROY & UTICA R. R.** Report of the Chief Engineer of the T. & U. R. R. made to the Board of Directors, Nov. 18th, 1853. Johnstown, N. Y., 1854. 38 pp., 8 x 5, b. p. Af-5, p. 469.
- 156 **TYRONE, CLEARFIELD & ERIE R. R.** Report of the survey for the T. C. & E. R. R. J. E. Montgomery. Clearfield, Pa., 1854. 16 pp., map, 8 x 5, pap.



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- 99 **UNION PACIFIC R. R.** Address, of the Lieutenant-Governor of Illinois, on the resources of the far west, and the Pacific Railway, before the Chamber of Commerce of the state of New York, at a special meeting, Jan. 25th, 1866. Wm. Bross. N. Y., 1866. 30 pp., 9 x 6, pap.
- 363 —Address to the people of the United States, on a railroad from St. Louis to San Francisco; with appendices. P. P. F. De Grand. 24 pp., 8 x 5, b. p. no title-page.
- 363 —Description of a railroad route from St. Louis to San Francisco, in letters to P. P. F. De Grand. W. L. Dearborn. Bost., 1850. 16 pp., 8 x 5, b. p.
- 119 —Geological and agricultural survey of 100 miles west of Omaha, of the U. P. R. R. American Bureau of Mines. N. Y., 1866. 44 pp., 9 x 6, pap.
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- 142 **BARRY, SIR J. W.** Railway appliances: A description of details of railway construction subsequent to the completion of the earthworks and structures; including a short notice of rolling stock. Lond., 1890. 331 pp., il., 7 x 4, cl.
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- 147 —Same. Lond., 1838. ser. 1, ed. 2, cor. and imp. 1 v., 12 x 9, cl.
- 148 —Same. Lond., 1847. ser. 1, ed. 3; ser. 2, ed. 2. 4 v., 12 x 9,  $\frac{3}{4}$  mor.
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- 229 **COLE, GEORGE,** comp. Contractor's book of working drawings of tools and machines used in constructing canals, railroads, and other works, with bills of timber and iron; also, tables and data for calculating the cost of earth and other kinds of work. Buffalo, 1855. pl., tab., 13 x 18, cl.
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- EVANS, A. W. W.** Carta dirigida al mui H. C. E. Childers sobre medida de anchura de los caminos de hierro, i sobre su construccion, maquinaria economia, etc. 1872. (See Ab-24.)
- 43 —Letter to H. C. E. Childers on railway gauges and construction, machinery, economy, etc. N. Y., 1873. 63 pp., 9 x 6, pap.
- FLEMING, HOWARD.** Narrow-gauge railways in America; a sketch of their rise, progress and success; valuable statistics as to grades, curves, weight of rail, locomotives, cars, etc.; also a directory of narrow-gauge railways. 1876. (See Aa-40.)
- 194 **FOSTER, W. C.** Table of level cuttings. no place, no date. tab., 9 x 6, pap.
- GILLESPIE, W. M.** Railroads. 1871. (See Na-18a, p. 261.)



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- GODWIN, H. C.** Railroad engineers' field-book and explorers' guide; especially adapted to the use of railroad engineers on location and construction, and to the needs of the explorer in making exploratory surveys. 1890. (See Ab-419.)
- 116 **GOODRIDGE, J. C.** Process of, and device for, the construction and repair of tunnels and shafts: Specification forming part of Letters Patent No. 303 506, dated Aug. 12th, 1884. 3 pp., pl., 12 x 8, pap. no title-page.
- 174 **GROSSE SIEBENBÜRGER DRAHTSEILBAHN; SYSTEM, TH. OBACH.** Wien, 1884. 2 pp., pl., 20-22, 11 x 9, pap. no title-page.
- 10 **GUNESCH, R. R. VON.** Wechselwirkungen von Eisenbahnen und Volkswirtschaft. Wien, 1876. 15 pp., 9 x 6, pap.
- HASKOLL, W. D.** Assistant engineer's railway guide. Note: Pt. 1, Boring; description of tools and methods of proceeding, and remarks on British strata and their contents as materials in construction. Pt II, Instructions for setting out the lines and levels of railway works; and bridges and viaducts, on the square, on the skew, and on curves. 1846-48. (See Ab-12.)
- 158 —Railway construction: from the setting out of the centre line to the completion of the works . . . treatise on taking borings; with practical rules for designing works and getting out working drawings of masonry and brick-work, timber, wrought iron and cast iron and examples of specifications and tables for earthwork. Lond., 1857. 2 v., il., pl., 11 x 8, cl.
- 192 **HAYCROFT, J. I.** Engineering construction in connection with rainfall. Note: Applied particularly to the construction of railroads. no place, 1898. pp. 33-63, il., 8 x 5, pap.
- 197 **HERMANN, E. A.** Steam shovels and steam shovel work. N. Y., 1894. 60 pp., il., 10 x 7, cl.
- HIGHAM, R.** Specifications for the tunnel under the Hudson River, at Albany, N. Y. Albany, 1853. 25 pp., 9 x 6, b. p. Nd-1, p. 267.
- 213 **HOWARD, C. R.** Earthwork mensuration on the basis of the prismoidal formula; containing a simple and labor-saving method of obtaining prismoidal contents directly from end areas; illustrated by examples, and accompanied by plain rules for practical use. N. Y., 1874. 72 pp., il., 9 x 6, cl.
- 228 **HOWE, M. A.** Retaining-walls for earth, including the theory of earth-pressure as developed from the ellipse of stress; with a short treatise on foundations, illustrated with examples from practice. ed. 3, rev. and enl. N. Y., 1896. 10 + 132 pp., il., pl., 7 x 5, cl.
- 210 **HUDSON, J. R.** Tables for calculating the cubic contents of excavations and embankments, by an improved method of diagonals and side triangles. ed. 2, rev. and enl. N. Y., 1886-87. 2 v., il., 9 x 6, cl.
- 12 **HUNTINGTON, W. S.** Road-master's assistant and section-master's guide: A manual of reference for all having to do with the permanent way of American railroads: containing the best results of experience and minute directions for track-laying, ballasting, and keeping the track in good repair. ed. 2. N. Y., 1872. 144 pp., 7 x 5, cl.
- 12a —Same. Rev. and enl. by Charles Latimer. ed. 10. N. Y., 1884. 15 + 282 pp., il., 7 x 5, ro.
- 206 **JACOB, ARTHUR.** Practical designing of retaining walls. N. Y., 1873. 47 pp., il., 6 x 4, bds.
- 15 **JERVIS, J. B.** Treatise on the construction and management of railways; designed to afford useful knowledge in a popular style to the holders of this class of property. Phil., 1869. 341 pp., 7 x 5, cl.
- 13 **JOHNSON, E. F.** Table of cubical quantities, for determining the amount of excavation and embankment in the construction of railroads and canals. N. Y., 1839. 20 + 13 pp., tab., 7 x 5, ro.
- 3 **KÖKERT, KARL.** Flächentafeln zur Cubatur-Berechnung bei Eisenbahn-Proecten. Wien, no date. 12 tab., 10 x 7, bds.
- 217 **KREUTER, FRANZ.** Berechnung der Staumauern. Ber., 1894. 12 pp., il., 14 x 10, pap.
- 41 **LALANNE, L.** Tableau graphique relatif aux déblais. Paris, no date. tab., 10 x 23, pap.
- 46 **LATROBE, B. H.** Letter on the railway gauge question; also extracts from English engineers' reports to the British Government on railway gauges and economy in construction, maintenance and working. N. Y., 1872. 35 pp., 9 x 6, pap.
- 18 **LECOUNT, PETER.** Practical treatise on railways, explaining their construction and management. Note: The substance of this treatise appeared in the article on railways in the seventh edition of the Encyclopædia Britannica. Edin., 1839. 422 + 1 pp., il., pl., 8 x 5, cl.
- 179 **LEHWALD, J., and O. RIESE.** Der eiserne Oberbau: Beitrag zur Beurtheilung der Dauer und des Verhaltens der zur Zeit gebräuchlichsten Lang- und Querschwellensysteme. Ber., 1881. 97 + 1 pp., pl., 9 x 6, pap.

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- LEUSCHNER, GUSTAV. Berechnung von Bahnhofgeleisen. 1875. (See Ab-216.)
- 76 LEVY-LAMBERT, A. Chemins de fer à crémaillère. (Encyclopedie des Travaux Publics.) Paris, 1891. 296 + 5 pp., il., 10 x 8, ½ skiv.
- 207 MACNEILL, JOHN. Tables for calculating the cubic quantity of earthwork in the cuttings and embankments of canals, railways, and turnpike roads. Lond., 1838. 38 + 254 pp., 4 pl., sh.
- 211 McALPINE, C. L. Earthwork tables. no place, no date. unpagcd, 7 x 5, sh. no title-page. manuscript.
- 216 McGEE, JOHN. Tables of areas of right-angled triangles of slopes of ¼: 1 to 4: 1; being an extract from *Librito del Campo*. Buenos Aires, 1890. unpagcd, tab., 7 x 4, cl.
- 98 MORRISON, ANDREW, and others. Three essays on track-work; received in competition for prize offered by the American Society of Railroad Superintendents. Bost., no date. 32 + 40 + 24 pp., il., 10 x 7, pap.
- MÜLLER, FRIEDRICH. Grundzüge des Kleinbahnwesens. 1895. (See Be-29.)
- MUÑOZ-TEBAR, JESUS. Cartera del ingeniero empleado en la construccion de ferrocarriles en terrenos montañosos; grabados en madera y laminas por Luis Muñoz-Tebar. 1887. (See Ab-434.)
- 168 NEALLEY, G. T. Brief description of a system of tables for computing earthwork occurring in regular prismoids on railways; also a set of auxiliary tables for constructing the above tables. 19 pp., 17 x 14, pap. no title-page. manuscript.
- 145 NICOLLS, W. J. Railway builder: A handbook for estimating the cost of American railway construction and equipment. ed. 5, rev. and enl. Phil., 1897. 283 pp., il., pl., 6 x 4, mor.
- NÖRDLING, WILHELM von., ed. Stimmen über schmalspurige Eisenbahnen. 1871. (See Ae-10.)
- 166 OSBORNE, R. B. Select plans of engineering structures for railroads and highways, as actually constructed. Phil., 1885. 1 v., pl., 14 x 21, pap.
- 127 PAINE, CHARLES. Application of tile drains to railway works. Note: Paper read before the Civil Engineers' Club of the Northwest, Dec. 11th, 1871. 4 pp., 6 x 4, pap. no title-page.
- 184 —Elements of railroadng: A series of short essays reprinted from *The Railroad Gazette*. N. Y., 1895. 5 + 154 pp., 8 x 5, cl.
- 114 PAINE, G. H. New road-master's assistant: A manual of reference for those having to do with the permanent way of American roads. Note: This volume is the successor to the "Road-master's Assistant" written by W. S. Huntington in 1871, and revised by Charles Latimer in 1877. N. Y., 1898. 8 + 259 pp., il., 8 x 5, ro.
- PANGBORN, J. G. The world's railway: Historical, descriptive, illustrative. 1894. (See Aj-50.)
- PERDONNET, AUGUSTE. Traité élémentaire des chemins de fer. 1858-60. (See Aa-21.)
- 196 PONCELET. Sustaining walls: Geometrical constructions to determine their thickness under various circumstances; with modifications and extensions by D. P. Woodbury, under the direction of J. G. Totten. ed. 2. Wash., 1854. pp. 237-268, il., pl., 9 x 6, pap.
- PONTZEN, ERNEST. Das Eisenbahnwesen in den Vereinigten Staaten von Amerika mit besonderer Berücksichtigung des Oberbaues, der mechanischen Ausrüstung, der Wagen, dann des Verkehres in Städten. 1877. (See Ad-10.)
- 155 —Die Frage: In welcher Weise sind zwei durch einen Gebirgsszug getrennte Eisenbahnnetze am entsprechendsten in directe Verbindung zu bringen? Wien, 1870. 110 + 18 pp., 5 pl., facsim., 14 x 9, pap.
- 138 —Procédés généraux de construction travaux de terrassement tunnels; dragages et dérochements. (Encyclopédie des Travaux Publics.) Paris, 1891. 559 pp., il., 10 x 6, mor.
- 17 —Vorschläge zur Förderung des Eisenbahnbaues. (Reprinted fr. *Zeitschrift des Oesterreichischen Ingenieur und Architekten-Vereines*, v. 18, 1873.) Wien, 1874. 23 pp., 8 x 5, bds.
- 126 REECE, BENJAMIN. Theory and Practice of section work. (Maintenance-of-way Series. No. 1.) Note: Consists of talks on track work; illustrations delivered to the track forces of the N. Y., N. H. & H. R. R., at meetings held Jan. 15th and Mar. 19th, 1897, in the lecture room of the R. R. Branch of the Y. M. C. A., New Haven, Conn. no place, 1897. 57 pp., il., 9 x 6, pap.
- 226 RICE, E. C. Tables for calculating excavation and embankment of regular and irregular cross-sections. St. Louis, 1873. 93 pp., il., pl., 13 x 10, ¼ mor.
- 227 ROBERTS, A. H. Diagram for the graphic calculation of earthwork quantities. Lond., no date. 5 pp., 10 pl., 14 x 9, cl.

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- 199 **ROBINSON, S. W.** Railroad economics; or, Notes, with comments, from a tour over Ohio Railways under the Hon. H. Sabine, Commissioner of Railroads and Telegraphs. (Van Nostrand's Science Series.) N. Y., 1882. 131 pp., il., tab., 6 x 4, bds.
- 5 **RZIHA, FRANZ.** Eisenbahn Unter- und Oberbau. (Separatausgabe des Wiener Weltausstellungs-Berichtes, Gruppe XVIII, Section 2.) Contents: v. 1, Geschichte, Vorarbeiten, Erdbau und Tunnelbau; v. 2, Brückenbau; v. 3, Oberbau. Wien, 1876-77. 3 v., il., pl., 9 x 6, pap.
- 34 **SANDBERG, C. P.** Light Railways. 1 p., 14 x 7, pap. no title-page.
- 20 **SCHOEN, J. G.** Tunnel-Bau Vorlesungen über Tunnel-Bau an den k. k. technischen Hochschulen zu Wien und Brünn. ed. 2. Wien, 1874. 2 v., 10 x 6,  $\frac{3}{4}$  mor.
- 137 **SHEARD, C. K.** Descriptive paper of railway practice and mountain railways of a similar description to the Tasmanian Rys. now under construction. Hobart, 1886. 68 pp., tab., 9 x 6, pap.
- 161 **SIMMS, F. W.** Practical tunnelling: Explaining in detail the setting out of the works, shaft sinking and head driving . . . brickwork of tunnels as exemplified by the particulars of Blechingly and Saltwood Tunnels. Lond., 1844. 174 pp., il., 12 pl., 12 x 9, cl.
- 161a —Same. ed. 2, rev. Lond., 1859. 189 pp., il., 16 pl., 12 x 8, cl.
- 187 **SPIELMANN and BRUSH.** Sketches illustrating how the tunnels are being constructed under the Hudson River between New York and Jersey City. no place, 1880. sheet, 17 x 13, pap.
- STEPHENSON, R. M.** Railways: An introductory sketch, with suggestions in reference to their extension to British colonies. 1850. (See Aj-15.)
- 47 **STEVENS, JOHN.** Documents tending to prove the superior advantages of railways and steam carriages over canal navigation. N. Y., 1812. (Reprint, N. Y., 1852.) 46 pp., 9 x 6, pap.
- STRICKLAND, WILLIAM.** Reports on canals, railways, roads, and other subjects; made to the Pennsylvania Society for the Promotion of Internal Improvement. 1826. (See Aj-49.)
- 205 **TATE, J. S.** Surcharged and different forms of retaining walls. N. Y., 1873. 59 pp., il., 6 x 4, bds.
- 2 **TILP, EMIL.** Handbuch der allgemeinen und besonderen Bedingungen für Leistungen und Lieferungen im Eisenbahnwesen. Wien, 1875. 439 + 8 pp., 10 x 7, bds.
- TRATMAN, E. E. R.** Railway track and track work. 1897. (See Ad-200.)
- 89 **TRAUTWINE, J. C.** New method of calculating the cubic contents of excavations and embankments, by aid of diagrams; together with directions for estimating the cost of earthwork. ed. 5, rev. and enl. Phil., 1874. 60 pp., pl., 9 x 6, cl.
- 89a —Same. ed. 9. N. Y., 1887. 71 pp., pl., 9 x 6, cl.
- 152 **UNITED STATES—CORPS OF ENGINEERS.** Design for an improved submarine tunnel, comprising a brick arch within a cast or wrought-iron skin, laid in a trench dredged for that purpose; by J. G. Foster. Note: Plan proposed as a substitute for Maverick Bridge by which to connect Boston and East Boston. no place, 1868. 8 pp., 5 pl., 12 x 9, cl.
- VOSE, G. L.** General specifications for a railroad. 1873. (See Aa-19, p. 488.)
- Handbook of railroad construction, for the use of American engineers; containing the necessary rules, tables, and formulæ for the location, construction, equipment and management of railroads, as built in the United States. 1857. (See Aa-20.)
- Manual for railroad engineers and engineering students; containing the rules and tables needed for the location, construction, and equipment of railroads, as built in the United States. 1873. (See Aa-19.)
- 16 **WELLINGTON, A. M.** Methods for the computation from diagrams of preliminary and final estimates of railway earthwork, with diagrams giving quantities on inspection to the nearest cubic yard for both regular and irregular sections, direct from ordinary field notes. N. Y., 1874-75. 2 v., 8 x 5, cl.
- 212 **WINKLER, E.** Neue Theorie des Erddruckes nebst einer Geschichte der Theorie des Erddruckes und der hierüber angestellten Versuche. Wien, 1872. 143 pp., il., 8 x 6, cl.
- 19 —Vorträge über Eisenbahnbau. Contents: v. 1, Eisenbahn-Oberbau; v. 2, Weichen und Kreuzungen; v. 3 wanting; v. 4 wanting; v. 5, Eisenbahn-Unterbau. Prag, 1874-75. 3 v., 9 x 6, cl.
- 103 **ZIFFER, E. A.** Ueber Feldeisenbahnen. Düsseldorf, no date. 25 pp., pl. 11 x 7, pap.



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- 202 **GREAT BRITAIN.** Public works of Great Britain. F. W. Simms, ed. Contents: pt. 1. Railways, locomotives, engines, and carriages; pt. 2. Canals, wharf walls, bridges, and the docks and port of Liverpool; pt. 3. Turnpike roads, iron, steel, and gas-works; pt. 4. Port and docks of London. Lond., 1838. various pagings, pl., 22 x 15,  $\frac{3}{4}$  mor.
- 200 **HUDSON RIVER R. R.** Drawings, specifications and contracts mainly relating to the original construction of the H. R. R. R. no place, 1840-51. 13 sheets, 117 pl., 28 x 20, pap.
- In the Supreme Court of New York; motion enjoining the defendants from constructing a railroad on certain streets in the city of New York, denied by the court. *Susannah Drake and others vs. the Hudson River R. R. Co.* no date. (See Af-218, p. 425.)
- 198 **INDIA.** Railed roads: A manual for local boards, district officers, and railway officials; intended chiefly for the Madras Presidency. F. J. E. Spring. Madras, 1899. 6+52 pp., 13 x 8, pap.
- 171 **ITALY.** Compagnie des Chemins de Fer de la Haute Italie; recueil de dessins d'exécution concernant, sauf indication spéciale, la ligne de Bologne à Pistoie. J. L. Protche. Boulogne, 1864. 46 pl., 15 x 12,  $\frac{3}{4}$  mor.
- 120 **JAMAICA.** Report on condition of the Jamaica railway extensions; and report of J. S. Elliott and C. P. Lazarus. A. M. Wellington. no place, 1893. 30 pp., 13 x 9, pap.
- 149 **LONDON & BIRMINGHAM RY.** Appendix to railway practice; containing a copious abstract of the whole of the evidence given upon the L. & B. and Great Western Ry. bills; to which is added a glossary of technical terms used in civil engineering, and the details of Hawthorn's celebrated locomotive engine for the Paris and Versailles Ry. S. C. Brees. Lond., 1839. 373 pp., 6 pl., 12 x 9, cl.
- LONG ISLAND R. R.** Description of the construction of the first division of the L. I. R. R.; with remarks. N. Y., 1838. 31 pp., pl., 9 x 5, b. p. Ab-362, p. 445.
- LOUISVILLE, CINCINNATI & CHARLESTON R. R.** Call upon the stockholders. Note: Call for an installment of five dollars on each share in the company, thus enabling the work upon the road to be continued and finished. Charleston, 1838. 89 pp., 9 x 5, b. p. Ab-362, p. 373.
- 182 **LUPKOWER TUNNEL.** Der Lupkower Tunnel der ersten ungarisch-galizischen Eisenbahn. R. R. von Gunesch. Wien, 1878. 50 + 2 pp., 9 pl., 11 x 7, pap.
- MARQUETTE, SAULT STE. MARIE & MACKINAW R. R.** Plaintiff's points: Statement; in New York Supreme Court, general term. C. B. Walter and others. Note: Suit brought to determine the amount that should be paid by the defendants for the contract to construct the Marquette, Sault Ste. Marie & Mackinaw R. R. 1879 (?) (See Af-261.)
- 26 **MISSOURI PACIFIC R. R.** Report of Engineer Board to Citizens' Committee on lowering tracks of M. P. R. R., and connecting all commercial outlets of St. Louis. H. Flad and others. St. Louis, 1874. 52 pp., 9 x 6, pap.
- MOHAWK & HUDSON R. R.** Specifications for work on the railroad. various pagings, 13 x 8, b. p. no title-page. Dc-763, p. 181.
- 22 **MONT CENIS TUNNEL.** Le percement du Mont-Cenis. Louis Figuier. Paris, 1872. 42 pp., 7 x 4, cl. no title-page.
- 83 —Rapport sur le percement du grand tunnel des Alpes. Conte. Paris, 1863. 51 pp., pl., 9 x 6, pap.
- NETHERLANDS.** Account of the Netherlands railways. L. C. van Kerkwyk. 1876. (See Cb-214, p. 86.)
- 124 **NEW HAVEN & DERBY R. R.** Contract and specifications for the grading masonry, bridging and track-laying from the city of New Haven to its junction with the Naugatuck R. R. in the town of Derby; issued Oct. 5th, 1867. rev. ed. New Haven, 1867. 20 pp., 9 x 6, pap.
- NEW YORK STATE—CANAL COMMISSIONERS.** Report on a resolution of the Assembly, relative to the cost of canals and railroads. 1835. (See Cfh-10, p. 939.)
- NEW YORK & ERIE R. R.** Address of the Board of Directors upon continuing and completing the railroad. N. Y., 1844. 16 pp., 8 x 5, b. p. no title-page. Af-2, p. 585.
- Address of the Directors to the public, September 2d, 1845. N. Y., 1845. 7 pp., 9 x 5, b. p. Af-216, p. 323.
- 27 —Inquiry into the causes which have affected the prospects and condition of the N. Y. & E. R. R. N. Y., 1843. 27 pp., 9 x 6, pap.
- Memorial to the Legislature of the state of New York. Note: Requests financial aid from the state. N. Y., 1837. 20 pp., 9 x 5, b. p. Af-216, p. 53.
- Report of J. Seymour, appointed by the Investigating Committee of the New York Legislature to examine the N. Y. & E. R. R., 1841. Note: Pages missing. Albany, 1842. 8 pp., 8 x 5, b. p. Ah-23, p. 715.

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- 154 — Reports on the gauge question in its relation to the N. Y. & E. R. R. Co., by the Chief and Division Engineers. no place, no date. unpagcd, manuscript, 15 x 10, sh.  
— Statements in relation to the cost of the N. Y. & E. R. R. 11 pp., 9 x 5, b. p. no title-page. Af-216, p. 219.
- 188 **NEW YORK & HARLEM R. R.** Proposals for iron and stone bridges, tunnels, walls, excavations, etc., on Fourth Avenue, New York City. no place, 187-. unpagcd, 14 x 9, pap. no title-page.
- 190 — Specifications for building iron bridges, walls, etc., for the Fourth Avenue Section, New York City. unpagcd, 14 x 9, pap. no title-page.
- 189 — Specifications for tunnels, bridges, retaining walls, arches, piles and timber foundations, etc., from 79th Street to Harlem River. unpagcd, 14 x 9, pap. no title-page.
- NEW YORK & NEW HAVEN R. R.** Letter to the President of the N. Y. & N. H. Ry. Co., with reference to railway construction, accidents, etc. A. W. W. Evans. 1864. (See Aj-3, p. 239.)
- 159 **NEW YORK CANAL & R. R.** Vosburg tunnel: A description of its construction. Leo von Rosenberg. Note: Published with the permission of the Lehigh Valley R. R. Co. N. Y., 1887. 88 pp., il., 69 pl., 11 x 8, cl.
- 44 **NEW YORK CENTRAL R. R.** War of the gauges; or, Crossing the Isthmus in a snow storm; railroading at Erie, comprising an official and authentic version of the railroad troubles at Erie and Harbor Creek. Cleveland, 1854. 62 pp., il., 9 x 6, pap.
- NEW YORK, LAKE ERIE & WESTERN R. R.** General specifications for iron bridges. 1879. (See Fa-42.)
- 94 **NEW YORK, WEST SHORE & BUFFALO RY.** Engineer's book of tables for railway construction (double track), comp. for Engineering Department of N. Y., W. S. & B. and New York, Ontario & Western Railways. N. Y., 1882. 22 tab., 9 x 6, pap.
- NORFOLK & PETERSBURG R. R.** Speech in the Virginia House of Delegates, Feb., 1854. Francis Mallory. Note: Advocates an increase of the capital stock of the N. & P. R. R. Co. Norfolk, Va., 1854. 10 pp., 9 x 6, b. p. Ag-5, p. 1108.
- 118 **NORFOLK & WESTERN R. R.** Forms used in keeping account of work done by contractors. 10 sheets, various sizes, pap. no title-page.
- 31 **NORTH MISSOURI R. R.** Form of contract and specifications. no place, 1866. 23 pp., 9 x 6, pap.
- 28 **NORTH SIMCOE RY.** Return of correspondence and papers relating to the N. S. Ry. Ontario-Provincial Secretary. Toronto, 1875. 13 pp., 10 x 7, pap.
- 30 — Supplementary return of correspondence and papers relating to the N. S. Ry. subsequent to that printed in Sessional papers, Jan. 10th, 1876. Ontario-Provincial Secretary. Toronto, 1876. 8 pp., 10 x 7, pap.
- 29 — Supplementary return of correspondence and papers relating to the N. S. Ry., subsequent to that printed in Sessional papers, Jan. 17th, 1876. Ontario-Provincial Secretary. Toronto, 1876. 5 pp., 10 x 7, pap.
- 32 **NORTHERN PACIFIC R. R.** Letter from the Engineer-in-Chief of the N. P. R. R. to Henry Villard. A. Anderson. N. Y., 1884. 8 pp., 9 x 6, pap.
- NORTHERN PACIFIC RY.** Rules for railway location and construction of the N. P. Ry. E. H. McHenry. 1899. (See Ab-431.)
- 164 **NORWAY.** Types of constructions on the Norwegian railways of 3 ft. 6 ins. gauge. no place, 1878. 9 pp., 36 x 15, pap.
- 165 **NOVA SCOTIA RY.** Report on the N. S. Ry.: Its present condition and probable cost, February 5th, 1858. Note: Report made to the Provincial Secretary of Nova Scotia. James Laurie. Halifax, 1858. 55 pp., 12 x 8, pap.
- 201 **OESTERR. STAATS-EISENBAHN-GESELLSCHAFT.** Normalien für Eisenbahnbau der k. k. pr. ö. Staats-Eisenbahn-Gesellschaft, verfasst bei der Baudirection unter der Leitung des Baudirectors A. de Serres. Wien, 1875. pl., 17 x 14, cl.
- 51 **OHIO & MISSISSIPPI R. R.** Report upon the plan followed in changing the gauge of the O. & M. Ry. and the expense attending said change; made to the Chief Engineer of the Atlantic & Great Western Railroad. J. M. Goodwin. Cleveland, 1873. 27 pp., 10 x 8, pap.
- OHIO & PENNSYLVANIA R. R.** Proceedings on the 4th of July, 1849, at the state line near the village of Palestine, Columbiana County, Ohio, on the occasion of breaking ground for the commencement of the construction of the O. & P. R. R.; with the address delivered by Solomon W. Roberts. Pittsburg, 1849. 18 pp., 9 x 5, b. p. Ag-8, p. 91.
- 91 **PENNSYLVANIA R. R.** Construction contract. 4 pp., 14 x 8, pap. no title-page.
- 92 — Specifications for grubbing and clearing. 2 pp., 14 x 8, pap. no title-page.
- 93 — Specifications of stone masonry. 3 pp., 14 x 8, pap. no title-page.
- 135 **PERU.** Railway construction on the Peruvian Andes. J. R. Maxwell. no place, 1895. 14 pp., il., 9 x 6, pap. no title-page.

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- 185 **PHILADELPHIA & READING R. R.** Pennsylvania Avenue subway and tunnel. G. S. Webster. Note: Read before the Engineers' Club of Philadelphia, October 15th, 1898. no place, 1898. 32 pp., il., pl., 9 x 6, pap.
- 110 **PHILADELPHIA & READING TERMINAL R. R.** Full text of the ordinance; President Corbin's letter; opinion of City Solicitor; address of George R. Kaercher; impossibility of an underground road; Reading freight traffic; costs of elevation; opinions of the press; petitions and signatures. Phil., 1888. 112 pp., 9 x 6, pap.
- 105 **RHEINISCHE EISENBAHN.** Anweisung über die Verwendung eiserner Querschwellen. ed. 2. Köln, 1878. 10 pp., 7 x 5, pap.
- 104 —Instructions for the use of iron cross-ties. Cologne, 1878. ed. 2. 12 pp., 8 x 5, pap. manuscript.
- 11 —Zusammenstellung der Hauptmasse der Weichen Caliber 3 des Normalquerprofils der Bahn, der Normal-Geleisdistanzen, sowie der Locomotiven und Wagen, etc., in Metermass. Köln, 1873. 1 p., 17 x 45, pap.
- 204 **RIASHK-VIASMA R. R.** Album of drawings of the R.-V. R. R. Note: Title and text in Russian. no place, no date. unpag., pl., 27 x 20, mor.
- ST. LAWRENCE & ATLANTIC R. R.** Report on the gauge for the St. L. & A. R. R. A. C. Morton. Montreal, 1847. 79 pp., 8 x 5, b. p. Ad-1, p. 452.
- 175 **SCALETTABAHN.** Die Scalettabahn Graubünden Adhäsionsbahn von Landquart über Davos, Samaden, and Maloja nach Chiavenna, mit 1 M. Spurweite, 45% Maximalsteigung, und 100 M. Minimalradien; Vortrag gehalten im Verein für Eisenbahnkunde in Berlin, am 14. Januar, 1890. Carl Wetzel. Berlin, 1890. 22 pp., il., 26 pl., map, 13 x 9, pap.
- 167 **SCHWEIZERISCHE NORDOSTBAHN-GESELLSCHAFT.** Bahnbau. Zürich, 1875. 2 tab., 20 x 17, pap.  
—Bericht über die von der Abtheilung "Bahnbau" der Schweizerischen Nordostbahn-Gesellschaft. 1876. (See Ab-436.)
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- 52 **FORNEY, M. N.** Improved tank locomotives. N. Y., 1880. 33 pp., il., 8 x 12, pap.
- 164 —Locomotive proportion: Paper read before the Civil Engineers' Club of the Northwest, December 11th, 1871. 8 + 1 pp., 6 x 4, pap. no title-page.
- 53 —Tank locomotive. N. Y., 1867. 15 pp., 3 pl., 9 x 6, pap.
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- 96 **GOODYEAR, CHARLES, and NEW ENGLAND CAR SPRINGS CO. vs. Central R. R. of New Jersey.** In the Circuit Court of the United States, District of New Jersey; infringement of patent. Note: Suit brought to protect car-spring patent. N. Y., 1853. 15 pp., 9 x 6, b. p.
- 2 **GOODYEAR, HENRY B., vs. Railroad Car Ventilating Co.** Report of the entire testimony as taken before commissioners . . . and the decision of the Patent Office awarding to Henry B. Goodyear, as Administrator of Nelson Goodyear, Assignee of E. Hamilton, the priority of invention for deflecting windows for railroad cars; together with the opinion of Charles M. Keller, and the several patents granted. N. Y., 1853. 15 + 84 pp., pl., 9 x 6, b. p.
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- GREAT BRITAIN—RAILWAY DEPARTMENT.** Lithographical plans of carriages sanctioned by the Railway Department of the Board of Trade, for the conveyance of third-class passengers; with returns relative to railway carriage, 1845. (See Ai-80, p. 197.)
- 112 **GRIFFIN, P. H.** Brake service and car wheels: A paper read before the Central Railway Club at its annual meeting, Jan. 27th, 1892. Buffalo, 1892. 9 pp., 7 x 5, pap.
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- 216 **HALL IMPROVED AUTOMATIC ELECTRIC RAILWAY SIGNAL SYSTEM;** a work of twelve years, 1865 to 1878. No. 1. Hartford, 1878. 1 v., 12 x 9, pap.
- 81 **HANDYSIDE, HENRY.** Treatise on an improved method for overcoming steep gradients on railways, whereby any ordinary locomotive capable of hauling a given load up a gradient of 1 in 80 can take the same up 1 in 8. Lond., 1874. 31 pp., 4 pl., 9 x 5, pap.



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- 207 **HENRY, M. A.** Etude expérimentale de la vaporisation dans les chaudières de locomotives; Chemins de Fer de Paris à Lyon et à la Méditerranée, Juillet, 1889. 18 pp., pl., tab., 12 x 8, pap.
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- 269 **HOFFMAN, FRANZ.** Behaviour of railway vehicles in passing through curves; tr. fr. the *Mittheilungen des Sächsischen Ingenieur-und Architekten-Vereins*, by A. Bewley. Madras, 1898. 55 pp., pl., 13 x 8, pap.
- 208 **HOLLEY, A. L.** American and European railway practice in the economical generation of steam; including the materials and construction of coal-burning boilers, combustion, the variable blast, vaporization, circulation, super-heating, supplying and heating feed-water, etc.; and the adaptation of wood and coke-burning engines to coal-burning; and in permanent way, including road-beds, sleepers, rails, joint fastenings, street railways, etc. N. Y., 1867. 192 + 69 pp., map, 14 x 11, cl.
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- HUNTINGTON, W. S.** List of tools for track work. 1884. (See Ac-12a, p. 155.)
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- 102 **JEFFERDS, MOSES, R.** Goodfellow and Cushman light-weight high-capacity, tubular-frame freight cars. Middleborough, Eng., 1890. 36 pp., pl., tab., 8 x 5, pap.
- 29 **JENNY, CARL.** Bericht über die Studienreise, October, 1883, bezüglich der vorhandenen Communicationsmittel in und in der Nähe von grossen Städten. Wien, 1884. 56 pp., il., pl., 9 x 6, pap.
- 116 **KATTE, WALTER.** Improvements in permanent way and the needs and possibilities of better rail fastenings. 4 pp., pl., 11 x 8, pap. no title-page.
- 226 **KLETTE, OTTO.** Die neuen Bahnhofsbauten in Dresden; im Auftrage des königlich sächsischen Finanzministeriums veröffentlicht. 38 pp., pl. 2-6, 12 x 9, pap. no title-page.
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- 173 **LAZAR, ADOLPH.** Plate illustrating his patent iron sleepers. pl., 17 x 27, pap. no title-page.
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- 191 MAYOR, PAUL. Nouveau système de traction sur rampes de chemins de fer. unpag'd, 9 x 5, pap. no title-page.
- 192 —Traction sur chemins de fer. unpag'd, 9 x 5, pap. no title-page.
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- 97 NORRIS, SEPTIMUS. Norris's hand-book for locomotive engineers and machinists; comprising the proportions and calculations for constructing locomotives, etc. Phil., 1854. 302 pp., pl., 8 x 5, cl.
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- 95 **PECHAR, JOHANN.** Die Lokomotiv-Feuerbüchse für Rauchverzehrung und Brennstoff-Ersparniss mit besonderer Berücksichtigung des Systems Nepilly. Wien, 1884. 95 pp., il., pl., tab., 8 x 6, pap.
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- 74 **PONTZEN, ERNEST.** Schnee Schutzvorkehrungen auf amerikanischen und europäischen Eisenbahnen, sowie deren Nutzenanwendung auf die projektirte Airlbergbahn. Wien, 1874. 21 pp., 3 pl., 8 x 5, bds.
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- 101 **PRICE, J. M.** Price's combined cross-tie and stringer. Phil., no date. 1 sheet, 11 x 8, pap. no title-page.
- 33 **PUSKAS and BAILEY.** Signaux électriques pour chemins de fer; système Sykes d'enclanchements automatiques, breveté en 1875 et 1880. Paris, no date. 14 pp., 9 x 6, pap.
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- 253 **ROGERS' LOCOMOTIVE & MACHINE WORKS.** Photographs of locomotives manufactured at the Rogers' Locomotive and Machine Works from 1881. no place, no date. phot., 18 x 14, 1/4 mor.
- 98 **ROPER, STEPHEN.** Hand-book of the locomotive, including the construction, running and management of locomotive engines and boilers. Phil., 1874. 324 pp., il., por., 6 x 4, mor.
- 2 **ROSS WINAN'S PATENT** for the eight-wheeled car, Documents relating to. N. Y., 1856. 47 pp., 9 x 6, b. p.
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- 220 **ST. LOUIS TERMINAL RAILROAD ASSOCIATION.** The St. Louis union station: A monograph. St. Louis, 1895. 85 pp., il., map, 13 x 10, mor.
- 87 **SANDBERG, C. P.** Contract for rails and fastenings; form of specification. 2 pp., 10 x 8, pap. no title-page.



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- 83 —Description and traffic capacity of Sandberg's standard rail sections. Lond., 1872. 4 + 4 pp., 10 x 8, pap.
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- 133 —New standard section for steel rails, with improved rail joints. Lond., 1878. 1 pl., 15 x 22, pap.
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- 217 —Rail joints. no place, 1876. 1 p., pl., 16 x 11, pap.
- 59 —Safety of permanent way; with drawings and tables concerning punching and notching of rails. Lond., 1873. 12 pp., 5 pl., 4 tab., 9 x 6, pap.
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- 5 SCHRABETZ, EMIL. Neuer patentirter Schienenbiegeapparat. ed. 2. Wien, 1874. 8 pp., pl., 9 x 6, ½ cl.
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- 145 **TRATMAN, E. E. R.** Painted or planished-iron jackets, and discussion on large car problem. (New York R. R. Club, *Proceedings*, Oct., 1895.) N. Y., 1895. 23 pp., 9 x 6, pap.
- 143 —Plates illustrating the different types of rails, ties, etc., in use on the railroads of England, France, Holland, Switzerland, Spain, Africa, Australia, India, Argentine Republic and the United States. 22 pl., 9 x 6, pap. no title-page.
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- 92 **UNITED STATES—DIVISION OF FORESTRY.** Preliminary report on the use of metal track on railways as a substitute for wooden ties; by E. E. Russell Tratman; to which is added a report of experiments in wood seasoning by the Chicago, Burlington & Quincy R. R. Co., and other notes; comp. by B. E. Fernow. (Department of Agriculture, Division of Forestry, Bulletin No. 3.) Wash., 1889. 79 pp., pl., 9 x 6, pap.
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- 93 —Report on the substitution of metal for wood in railroad ties; by E. E. Russell Tratman; together with a discussion on practicable economies in the use of wood for railway purposes; by B. E. Fernow. (Department of Agriculture, Division of Forestry, Bulletin No. 4.) Wash., 1890. 363 pp., pl., 9 x 6, pap.
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- WAIDL, FRANZ.** Handbuch über Administration und Leitung des Zugförderungs- und Werkstättendienstes bei Eisenbahnen. 1873. (See Ae-7.)
- 17 **WALKER, JAMES.** Report to the Directors of the Liverpool and Manchester Ry., on the comparative merits of locomotive and fixed engines as a moving power. Phil., 1831. 206 pp., pl., 9 x 6, bds.
- 67 **WATERMAN, HENRY.** Car-wheel Manufacturers' Memorial to Congress opposing extension of the Atwood car-wheel patent. (42d Cong., 1st Sess.) Wash., 1874. 14 pp., pl., 9 x 6, pap.
- 189 **WATKINS, J. E.** Development of the American rail and track, as illustrated by the collection in the U. S. National Museum. Wash., 1891. pp. 651-708, il., 10 x 6, pap.
- 37 **WEARING QUALITIES OF AMERICAN STEEL RAILS.** Phil., 1879. 16 pp., 9 x 6, pap.
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- 48 —Report on safety signals to the Railroad Conventions, held at New York, Oct. 17th, 1866. Lambertville, N. J., 1870. 11 pp., 6 x 4, pap.

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- 63 **WHIPPLE, S. M.** Answer to memorial of A. G. Batchelder *et al.*, to Congress for an extension of the Tanner Center-Lever Brake Patent. (42d Cong., 3d Sess.) Contents: pt. 1, Answer; pt. 2, Proofs. Wash., 1873. 17 pp., 9 x 6, pap.
- 64 —Answer to petition of Anson Atwood to Congress for an extension of his railroad car-wheel patent. (42d Cong., 3d Sess.) Wash., 1873. 4 + 6 pp., 9 x 6, pap.
- 96 **WHITING, WILLIAM.** Argument in the case of Ross Winans *vs.* Orsamus Eaton *et al.* for an alleged infringement of his patent for the eight-wheel railroad car; before Samuel Nelson, Justice of the U. S. Circuit Court for the Northern District of New York. Bost., 1853. 165 + 1 pp., pl., 9 x 6, b. p.
- 49 —Twenty years' war against the railroads. Note: Account of the litigation between Ross Winans and Eaton, Gilbert & Co., commenced to establish the claim of the former as the alleged inventor and patentee of the eight-wheeled car. no place, 1860. 29 pp., 9 x 6, pap.
- 194 **WHITTEMORE, D. J.** Plan of device for moving transfer-tables. Milwaukee, 1885. 8 pl., 25 x 35, pap.
- 163 **WHITTLESEY, CHARLES.** Model of a steam scow and railroad car, attributed to John Fitch. pp. 529-532, il., 11 x 9, pap. no title-page.
- 84 **WHYTE, F. M.** Framing of cars. Note: Fr. *Proceedings*, Western Ry. Club. no place, no date. 7 pp., il., 9 x 6, pap. no title-page.
- 244 **WILLIAMS, JOHN, & CO., pub.** Student's guide to the locomotive engine: Being a description of the different modes of constructing locomotives, details of their component parts and the nature of their employment. Lond., 1849. 3 + 142 + 16 pp., 72 pl., 9 x 6, cl.
- 96 **WINANS, ROSS, vs. ORSAMUS EATON et al.** U. S. Circuit Court for the Northern District of New York, second circuit; case for the alleged infringement of the patent for the eight-wheel railroad car. 204 pp., 8 x 5, b. p. no title-page.
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- YOLLAND, W.** Report on railway brakes to the Lords of the Committee of the Privy Council for Trade. 1858. (See Ai-28, p. 115.)
- ZIFFER, E. A.** Ueber Feldeisenbahnen. no date. (See Ac-103.)
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- GREAT BRITAIN.** Circular of the 30th day of July, 1864, to the railway companies on the subject of a means of communication between different parts of a railway train while in motion; correspondence between the Board of Trade and the Committee of the Ry. Clearing House; and reports by the same Committee and Capt. Tyler on the same subject. 1865. (See Ai-32.)
- 233 —Circular to the railway companies of the United Kingdom; and correspondence relative thereto. Great Britain-Board of Trade. Note: Circular relative to the name-boards for stations. Lond., 1895. 49 pp., 13 x 8, pap.
- Return by the railway companies of the United Kingdom, on continuous brakes, 1890-98. Great Britain-Board of Trade. 1890-99. (See Ai-52.)
- 165 **GREAT NORTHERN RY.** English press locomotive, constructed by the G. N. Ry. Co.; from designs of Patrick Stirling. newspaper slip, pl., 15 x 27. no title-page.
- ILLINOIS CENTRAL R. R. CO. et al. vs. S. H. TURRILL.** Additional testimony before the Master, November and December, 1873, in the U. S. Circuit Court, Northern District of Illinois. Note: Suit relates to the alleged infringement on an improvement for repairing railroad bars. 1873. (See Af-227.)
- Pleadings and testimony for Complainant; in the U. S. Circuit Court, Northern District of Illinois. Note: Suit relates to the alleged infringement on an improvement for repairing railroad bars. 1873. (See Af-226.)
- 227 **INDUS VALLEY STATE RY.** Report on rolling stock ferries. W. R. Haughton and others. (Technical section, Paper No. 37.) Rajbari, India, 1894. 44 pp., 12 + 4 + 3 pl., 14 x 9, pap.
- IOWA.** Annual report of the assessed valuation of railroad property in the State of Iowa, as fixed by the Executive Council of the State; 8th, 26th; 1879, '97. (See Ah-42.)
- 179 **KÖNIGLICHE EISENBAHN-DIRECTION.** Control-Apparate von den Seitens der preussischen Staatsbahnen im Jahre 1877 bei Guntershausen ausgeführten Versuchen mit continuirlichen Bremsen. Frankfurt a/M., no date. 1 p., 13 x 8, pap. no title-page.



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- 213 —Eiserner Oberbau. Köln, 1881. pl., 26 x 40, pap.
- 180 —Sicherung und Auslösung der Signalhebel in centralen Weichen und Signalstellapparaten. Frankfurt a/M., no date. 2 pp., 13 x 8, pap. no title-page.
- 25 LAKE SHORE & MICHIGAN SOUTHERN R. R. Report of miles run by all engine, tender, and passenger equipment wheels removed during the year ending Dec. 31st, 1874-75, '77. Cleveland, 1875-78. 4 sheets, 14 x 11, pap.
- 224 LANCASHIRE & YORKSHIRE RY. Report on brake experiments; made at Gisburn on the L. & Y. Ry., on the 14th, 15th and 16th July, 1880. Douglas Galton. no place, 1880. 14 pp., tab., 18 x 8, pap.
- 255 LANDVAROVA-ROMNEY R. R. Drawings of the L.-R. R. R. Note: Title and text in Russian. no place, no date. 57 pl., 14 x 9, cl.
- 4 LONDON & NORTHWESTERN RY. On deterioration of railway plant and road, in two reports to the Directors of the L. & N. Ry. Co. Mark Huish and others. Lond., 1849. 8 + 64 pp., 9 x 6, b. p.
- LOUISVILLE & NASHVILLE R. R. Performance of engines and cost per mile run (monthly). April-Dec., 1885, Jan., Feb., Mar., June, 1886. (See Ae-341.)
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- MICHIGAN SOUTHERN & NORTHERN INDIANA R. R. Brief for Appellant; the M. S. & N. I. R. R. Co., Appellant, vs. Samuel H. Turrill, Appellee, in the Supreme Court of the United States, November Term, 1876. J. B. Niles. Note: Relative to machine used in mending rails (Cawood Patent.) 1876. (See Af-264.)
- 211 MOHAWK & HUDSON R. R. Experiments with locomotive engines, on the M. & H. R. R., 1834-37. W. H. Talcott, anon. 18 pp., 8 x 5, sh. no title-page. manuscript.
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- 128 NEW YORK CENTRAL & HUDSON RIVER R. R. Condensed diagram showing comparative condition of each mile of track, with general explanation and instruction for trackmen, of the N. Y. C. & H. R. R. R. P. H. Dudley. N. Y., 1882. 3 sheets, 35 x 9, pap.
- 91 —Passenger car and combination car, N. Y. C. & H. R. R. R., exhibited at the World's Columbian Exposition. no place, no date. pl., 20 x 13, pap.
- 72 NEW YORK CENTRAL R. R. Report on water for locomotives and boiler incrustations; made to the President and Directors of the N. Y. C. R. R. C. F. Chandler. N. Y., 1865. 35 pp., 9 x 6, pap.
- 32 NEW YORK CITY & NORTHERN R. R. Specifications for completing and equipping with rolling stock and all necessary appurtenances the railroad of the . . . company, from High Bridge, in the city of New York, to the New York, Harlem & Albany R. R. in the town of South East, in Putnam Co., New York. 5 pp., 14 x 9, pap. no title-page.
- 265 NEW YORK, LAKE ERIE & WESTERN R. R. Tests of tensile strength of material used in construction of boilers for consolidation locomotives. no place, 1879 (?) 4 sheets, 19 x 14, pap.
- NEW YORK, PENNSYLVANIA & OHIO R. R. Proceedings of the meeting of Road-masters of the . . . company. 1880-83. 1881-84. (See Ae-48.)
- 181 NICOLAI RY. Imperial saloon carriage, N. Ry. Note: Supplement to *Engineering*, January 31st, 1868. Lond., no date. pl., 21 x 14, pap.
- 223 NORTHEASTERN RY. Memorandum on brake experiments made by the N. E. Ry. Co., at York, on the 14th July, 1879; upon a train fitted with the Westinghouse Automatic Brake. Douglas Galton. no place, no date. 10 pp., tab., 18 x 8, pap.
- NORWAY. Types of constructions on the Norwegian Rys. of 3 ft. 6 ins. gauge. 1878. (See Ae-164.)
- 86 OESTERR. STAATS-EISENBAHN-GESELLSCHAFT. Typen-Skizzen und Dimensionen der bei der Wiener Weltausstellung, im Jahre 1873 exponirten 5 Lokomotiven "Austria," "Kaiser Franz-Josef," "Hungaria," "Stainz" und "Orient," Wien, no date. pl., 15 x 9, pap.
- 30 ORENBURG R. R. Album of drawings of the O. R. R. Note: Title and text in Russian. no place, no date. unpag., pl., 26 x 19, sh.
- 257 —Album of drawings of the rolling stock of the O. R. R. Note: Text in Russian and French. no place, 1876. unpag., pl., 14 x 12, mor.
- 256 ORLOF-VITEBSK R. R. Album of views, O.-V. R. R. Note: Title and text in Russian. no place, no date. pl., 17 x 21, mor.

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- 258 — Collection of drawings of the O.-V. R. R. Note: Title and text in Russian. St. Petersburg, 1875. pl., 18 x 13, bds.
- PENNSYLVANIA R. R.** Catalogue of the exhibit of the . . . company at the World's Columbian Exposition under the direction of Theodore N. Ely. J. Elfreth Watkins. 1893. (See Yf-31.)
- Its organization, construction and management. James Dredge. 1879. (See Ae-322.)
- 28 — Shops at West Philadelphia. J. M. Wilson. Phil., 1873. 26 pp., 16 pl., 9 x 6, pap.
- 70 — Report of experiments with coal-burning locomotives, made on the P. R. R., Apr.-Aug., 1859. W. J. Palmer, anon. Phil., 1860. 59 pp., tab., 9 x 6, pap.
- 3 **PHILADELPHIA & READING R. R.** Report upon the use of anthracite coal in locomotive engines on the Reading road, made to the President of the P. & R. R. R., April 20th, 1849. G. W. Whistler, Jr. Balt., 1849. 30 pp., 8 x 5, b. p.
- Topographical plan and profile of the P. & R. R. R., with plates illustrating the bridges, stations, etc., on the line of the road. 1856(?) (See Qf-461.)
- 212 **RHEINISCHE EISENBAHN.** Drawings showing the construction of various kinds of switches. 15 pl., 41 x 27, pap. no title-page.
- RIASHK-VIASMA R. R.** Album of drawings of the R.-V. R. R. no date. (See Ac-204.)
- SCALETTABAHN.** Die Scalettabahn Graubündner Adhasionsbahn von Land, quart über Davos, Samaden, und Maloja nach Chiavenna mit 1 M. Spurweite-45% Maximalsteigung, und 100 M. Minimalradien; Vortrag gehalten im Verein für Eisenbahnkunde in Berlin, am 14. Januar 1890. Carl Wetzel. 1890. (See Ac-175.)
- 205 **SCHWEIZERISCHE NORDOSTBAHN-GESELLSCHAFT.** Maschinenwesen: Programme. Nos. 1-11. (International-Ausstellung, Philadelphia, 1876.) Zürich, 1873. 2 v., pl., facsim., 14 x 9 (atlas 28 x 14), cl.
- Normalien für den Bahnbau. 1876. (See Ab-436, pt. 4.)
- 187 — Vierrädriger Personenwagen: 1 Classe. pl., 18 x 25. pap. no title-page.
- 76 **SOCIETE INDO-NEDERLANDAISE DE TRAMWAYS.** Traction au moyen des locomotives à vapeur sans feu: Système Lamm et Francq. Paris, 1888. 7 pp., pl., 11 x 7, pap.
- 174 **SOUTH CAROLINA CANAL & R. R.** Report of the Committee on Cars; submitted to the Stockholders, 20th November, 1833. Charleston, S. C., 1833. 14 pp., 9 x 6, pap.
- 214 **SOUTH INDIAN RY.** Specifications for sleepers; Contract No. 1. Lond., 1874. unpag., 13 x 8, pap.
- 7 **SÜDBAHN.** Eisenbahn-Hochbau in seiner Durchführung auf k. k. priv. Südbahn-Gesellschaft. Wilhelm Flattich und Franz Wilhelm. Contents: v. 1, pt. 1, Bahnhof Innsbruck und Brennerbahn; pt. 2, Arbeiter-Colonie zu Marburg; p. 3, Anschluss-Station Franzensfeste. v. 2, Atlas. Wien, 1873. 2 v., pl., 10 x 7, (atlas 19 x 15), bds.
- 11 — Eisenbahn-Oberbau in seiner Durchführung auf den Linien der k. k. priv. Südbahn-Gesellschaft. Rudolf Paulus. Wien, 1872. 8+152 pp., il., 14 pl., tab., 10 x 7, bds.
- 250 **SUMATRA.** Les traverses d'acier au chemin de fer de l'état à Sumatra. L. K. Lindhout. Bruxelles, 1899. 14 pp., il., 2 tab., 9 x 7, cl.
- UNITED STATES.** Betriebs-Einrichtungen auf amerikanischen Eisenbahnen; im Auftrage seiner Excellenz des Herrn Ministers für Handel, Gewerbe und öffentliche Arbeiten, nach dem eingereichten Reiseberichte bearbeitet und herausgegeben. H. Bartels, ed. Contents: v. 1, Bahnhofsanlagen und signale; v. 2 wanting. 1879. (See Ae-11.)
- Les Chemins de fer en Amérique. E. Lavoinnie and Ernest Pontzen. 1880-82. (See Ac-4.)
- 10 — Das Eisenbahnwesen in den Vereinigten Staaten von Amerika, mit Besonderer Berücksichtigung des Oberbaues, der mechanischen Ausrüstung, der Wagen, dann des Verkehrs in Städten. Ernest Pontzen. (Bericht über die Weltausstellung in Philadelphia, 1876. v. XIII.) Wien, 1877. 229 pp., pl., map, 9 x 6, pap.
- 147 — Extracts from English authorities on American locomotives, respectfully addressed to the Directors of Railways in Chili, and to all who may take an interest in this important subject. A. W. W. Evans, comp. Valparaiso, 1859. 33 pp., 8 x 5, pap.
- 210 — Notes sur le service du matériel et de la traction de quelques chemins de fer Américains. Charles Baudry. no place, 1887. 66 pp., facsim., 15 pl., 12 x 8, ¾ cl.
- 209 — Report on observations on railways, and other subjects, made during a tour in 1883, under the direction of the Government of South Australia; by Henry C. Mais, Engineer-in-Chief of South Australia. South Australia: Department of Public Works. Contents: v. 1, Report; v. 2, Plates. Adelaide, 1884. 2 v., pl., 13 x 8 (pl., 27 x 15), skiv.

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- Report of observations on railways made during a tour in 1874 and 1875, undertaken by the direction of the Government of Victoria. Thomas Higinbotham. 1876. (See Aa-42.)
- 90 **VICTORIA.** Report of the Board appointed by the Governor to inquire into certain matters connected with the Locomotive Branch of the Railway Department. Melbourne, 1893. 22 pp., 13 x 8, pap. no title page.
- WESTERN R. R. CORPORATION.** Letter to the majority of the Joint Committee of the Massachusetts Legislature on the affairs of the W. R. R. Corporation; with some additional testimony proposed by the President of the Corporation. George Bliss. Note: Relative to the engines used upon the road. Bost., 1843. 26 pp., 9 x 5, b. p. Ag-279, p. 289.
- 8 **WESTERN RAILWAY OF FRANCE.** 1st class carriage under-framing. Note: From "Portfolio of Working Drawings," No. 119, supplement to *The Engineer*, April 2d, 1886. Sheet No. 2, 23 x 17, pap.

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- 44 **ADIRONDACK RY.** Articles of association and by-laws. N. Y., 1883. 41 pp., 9 x 6, pap.
- 45 —Its present condition and future prospects. Silas Seymour. N. Y., 1883. 14 pp., 9 x 6, pap.
- ALABAMA—GENERAL ASSEMBLY.** Report of the Joint Committee to confer with representatives from the railroads in this state. Note: Relates to the regulation of railroad rates. 8 pp., 9 x 6, pap. no title-page. Ab-7, p. 87.
- 221 **ALBANY & SUSQUEHANNA R. R.** Statement of the Directors to the Stockholders and Memorialists. Note: Defends the management of the road. Albany, 1854. 12 pp., 9 x 6, pap.
- ALBANY NORTHERN R. R.** Report of the Special Committee of the Albany Common Council, in the matter of the application of the A. N. R. R. Co. for relief; Feb. 23d, 1854. Albany, 1854. 32 pp., 9 x 6, b. p. Ag-5, p. 363.
- 43 **ALLEGHENY PORTAGE R. R.** Report of the late Superintendent of the A. P. R. R., relative to the affairs of that section of the public works, from Dec. 1st, 1842, to Nov. 30th, 1843. John Snodgrass. Harrisburg, 1844. 7 pp., 9 x 6, pap.
- 237 **ALLEGHENY VALLEY R. R.** By-laws and organization; adopted by the Board of Managers, July 21st, 1875. Pittsburg, 1875. 25 pp., 9 x 6, pap.
- AMERICAN TRAIN DISPATCHERS' ASSOCIATION.** Proceedings of the Annual Meeting. (See Sa3-153.1.)
- 191 **ATCHISON, TOPEKA & SANTA FE R. R.** Plan of Reorganization; circular No. 63; October 15th, 1889. no place, 1889. 19 pp., 11 x 8, pap.
- 190 —Report to the General Reorganization Committee of the A., T. & S. F. R. R. Co. 1894. Robert Moore. 1 + 3 pp., 11 x 9, pap. no title-page.
- 180 —Statement as of Nov. 30th, 1888. Bost., 1888. 58 pp., 9 x 6, pap.
- 391 **ATLANTIC & GREAT WESTERN R. R.** Chart showing the financial and operating statistics of the road, 1863-82; comp. under the direction of Charles Latimer by A. Mordecai. no place, no date. sheet, 44 x 36, pap.
- 25 —Instructions for the running of trains, etc.; to take effect July 1st, 1872. Meadville, Pa., 1872. 142 pp., 6 x 4, cl.
- 274 —Over the A. & G. W. R. R. P. Barry. Lond., 1866. 146 pp., map, 7 x 4, bds.
- Proceedings of the meeting of road-masters of the company; 1875-79. 1875-80. (See Ae-47.)
- Rules for the government of track and bridge repairers. W. S. Huntington. 1884. (See Ac-12a, p. 187.)
- 356 **AUSTRIA.** Localbahnen in Galizien und der Bukowina im Anschlusse an die k. k. priv. Lemberg-Czernowitz-Jassy Eisenbahn. E. A. Ziffer. Wien, 1890. 190 pp., pl., maps, tab., 13 x 10, pap.
- Note sur l'organisation actuelle des chemins de fer locaux en Autriche et sa modification projetée. E. A. Ziffer. 1894. (See Aj-35.)
- 35 **AUSTRIA-HUNGARY.** Der Conducteur (monthly): Fahrpläne der österreichisch-ungarischen Eisenbahn-Post und Dampfschiff-Course, nebst den wichtigsten Eisenbahnverbindungen des Auslandes. Wien, 1876. 172 pp., map, 7 x 5, bds.
- On the utilization of water and rail routes in Hungary and their competitive influence in reducing freight charges. Alexander Halász. (World's Columbian Water Commerce Congress. Chicago, 1893.) Bost., 1893. 21 pp., 10 x 6, pap. Ca-31.4.
- Respective uses of waterways and railways in regard to transportation: Report. Antoine Schromm. (International Congress on Inland Navigation; 5th. Paris, 1892.) Paris, 1892. 19 pp., pl., 11 x 7, pap. Ca-5.48.



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- Respective uses of waterways and railways in the transport trade of Hungary: Report. Alexander Halász. (International Congress on Inland Navigation; 5th. Paris, 1892.) Paris, 1892. 16 pp., 11 x 7, pap. Ca-5.53.
- 2 **BALTIMORE & OHIO R. R.** Address of the President, made on the 8th of May, 1870, at the monthly meeting of the Board of Directors of the B. & O. R. R. Co. J. W. Garrett. Balt., 1870. 14 pp., 8 x 5, b. p.
- 2 —Address of the President, made on the 12th of February, 1868, at the monthly meeting of the Board of Directors of the B. & O. R. R. Co. J. W. Garrett. Balt., 1868. 16 pp., 8 x 5, b. p.
- 2 —Address of J. W. Garrett on his re-election as President of the B. & O. R. R. Co. on the 23rd November, 1864, sketching the policy and prospects of the company; together with the remarks on the Annual Message of the Mayor of Baltimore on the 11th Jan., 1865. Balt., 1865. 28 pp., 8 x 5, b. p.
- 2 —Address to the Board of Directors of the B. & O. R. R. Co. upon his re-election as President of that company, Dec., 1865. J. W. Garrett. Balt., 1865. 20 pp., 8 x 5, b. p.
- 2 —Address to the Board of Directors of the B. & O. R. R. Co. upon his re-election as President of that company, Dec., 1866. J. W. Garrett. Balt., 1866. 22 pp., 8 x 5, b. p.
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- 2 —Communication of the President to the House of Delegates of Maryland in reference to a resolution submitted to annul the charter of the B. & O. R. R. Co. Balt., 1870. 15 pp., 8 x 5, b. p.
- 2 —Correspondence between J. L. Chapman and the B. & O. R. R. Co. Balt., 1860. 6 pp., 8 x 5, b. p. no title-page.
- 2 —Extra dividend case; statement made by the President to the Board of Directors at their meeting on the 12th September, 1860: With the opinion of Randall and Hagner, concurred in by William Price, of counsel for the State of Maryland, in reference thereto. Balt., 1860. 32 pp., 8 x 5, b. p.
- 2 —Letter and accompanying documents from the President to the Comptroller of Maryland, in relation to the obligation of the State to provide for remitting to England the interest due on certain sterling bonds of the State. Balt., 1865. 16 pp., 8 x 5, b. p.
- 2 —Remarks of the President, made on the 14th of Feb., 1866, at the regular monthly meeting of the Board of Directors of the B. & O. R. R. Co., in relation to the Annual Message of the Mayor of Baltimore, of Jan. 15th, 1866. J. W. Garrett. Balt., 1866. 20 pp., 8 x 5, b. p.
- 2 —Remarks of the President, made on April 14th, 1869, at the regular monthly meeting of the Board of Directors of the B. & O. R. R. Co. J. W. Garrett. Balt., 1869. 14 pp., 8 x 5, b. p.
- 2 —Remarks of the President, made on September 8th, 1869, at the regular monthly meeting of the Board of Directors of the B. & O. R. R. Co. J. W. Garrett. Balt., 1869. 12 pp., 8 x 5, b. p.
- 2 —Remarks of the President, made on January 12th, 1870, at the regular monthly meeting of the Board of Directors, in relation to the statements regarding the B. & O. R. R. Co. in the message of the Governor of Maryland, communicated to the General Assembly . . . 6th of January, 1870. J. W. Garrett. Balt., 1870. 11 pp., 8 x 5, b. p.
- 2 —Remarks to the Board of Directors of the B. & O. R. R. Co. regarding a line of steamships from Baltimore to Europe. J. W. Garrett. Balt., 1860. 4 pp., 8 x 5, b. p.
- 2 —Report of the Committee of Finance: Being a review and vindication of the policy of the Company from the charges made in the Annual Message of the Mayor of Baltimore, dated Jan. 3d, 1865. Balt., 1865. 45 + 2 pp., 8 x 5, b. p.
- 2 —Reports of the Majority and Minority of the Special Committee appointed to investigate its financial condition, general line of policy heretofore pursued, etc.; presented at the meeting of the Board. April 14th, 1858. Balt., 1858. 30 pp., 8 x 5, b. p.
- Resolutions of the Board of Directors, expressive of their regret at the death of John W. Garrett. 1884. (See Ag-275, v. 12, p. 29.)
- 273 —Service report on technical education; with special reference to the B. & O. R. R. service, October 1st, 1886. W. T. Barnard. Balt., 1887. 1 + 168 + 70 pp., 10 x 7, pap.
- 2 —Testimony taken before a Special Committee of the House of Delegates of the Maryland Legislature under an order passed on the 23d Jan., 1860, to inquire into the allegations of discriminations against the citizens of Maryland by the B. & O. R. R. Balt., 1863. 32 pp., 8 x 5, b. p.
- BALTIMORE & SUSQUEHANNA R. R.** Correspondence between E. L. Lowe and R. C. Wright on the subject of the future prospects of the B. & S. R. R. Balt., 1853. 44 pp., 9 x 5, b. p. Af-4, p. 671.

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- 361 **BENGAL.** Railway management in Bengal: Three lectures delivered at the Sibpur Engineering College in February and March, 1896. S. Finney. Calcutta, 1896. 36 pp., pl., 13 x 8, pap.
- 161 **BOMBAY, BARODA & CENTRAL INDIA RY.** Quarterly guide and coaching tariff, containing time and fare tables, January to March, 1898. No. 5. Ajmere, 1887. 1 v., 10 x 7, pap.
- 365 **BOSTON, MASS.** Letter to Abbott Lawrence and Robert G. Shaw on the present condition and future growth of Boston. Otis Clapp, anon. Note: Relates to railroad rates. Bost., 1853. 16 pp., 9 x 5, pap.
- 246 **BOSTON & ALBANY R. R.** Reply to the charges made against the Managers of the railroad, in a report made to the Legislature by one of the State Directors; by the Vice-President of the Company made to the Stockholders, Feb. 9th, 1876. Bost., 1876. 22 pp., 9 x 6, pap.
- 337 **BOSTON & MAINE R. R.** Merchandise tariff of the railroad, leased lines and branches; adopted by the Directors Jan. 21st, 1885, to take effect Feb. 1st, 1885. Bost., 1885. 44 pp., 17 x 11, cl.  
—Report of the Committee of Investigation appointed by the Stockholders at a meeting held at Exeter, N. H., May 28th, 1849. Bost., 1849. 72 pp., maps, 9 x 6, b. p. Ab-10, p. 131.
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- 368 **NAGLE, J. C.** Training of engineers for the Maintenance-of-Way Department on Railroads. no place, no date. pp. 257-268, 9 x 6, pap.
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- 249 **PEW, ARTHUR**. Notes on government railroads. Atlanta, 1894. 68 pp., 9 x 6, pap.
- 320 **PONTZEN, E. and J. FLEURY**. Voies navigables et chemins de fer. Note: A discussion of the cost of transportation. Paris, 1887. 47 pp., 10 x 6, pap.
- 174 **RAILWAY RESISTANCES**. Note: Explanation of the "dynograph": Designed to measure the resistances due to the movement of trains. 1 p., pl., 12 x 12, pap. no title-page.
- 248 **RINECKER, FRANCIS**. Das System Abt in Oertelsbruch. no place, no date. 7 pp., il., 13 x 8, pap.
- 222 **RUSLING, J. F.** Railroads, the stock-yards, the eveners: Exposé of the railroad ring that robs the laborer of the East and the producer of the West of \$5 000 000 a year. Note: Argument on behalf of the producer and consumer of live stock, before a Committee of the House of Representatives. Wash., 1878. 23 pp., 8 x 5, pap.
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- Proceedings of the Committee appointed under a resolution of the Assembly to investigate alleged abuses in the management of railroads chartered by the State of New York. 1879. (See Ah-48.)
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- 77 —Address of the Board of Directors to the public, Nov. 1st, 1844. Note: Relates to the condition of the railroad. N. Y., 1844. 15 pp., 9 x 6, pap.
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- 227 —Rates of toll in cents per hundred pounds; adopted May 19th, 1851. tab., 38 x 22, pap. no title-page.
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- 83 —Letter to the *New York Times* in reply to N. Y. C. R. R. Co. G. W. Cass. no place, 1859. 6 pp., 9 x 6, pap.



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- 76 **NORTH SHORE RY. OF CANADA.** Report of the Engineer in Chief, in relation to the past history, present condition and future prospects of the N. S. Ry. of Canada. Silas Seymour. Quebec, 1872. 24 pp., maps, 9 x 6, pap.
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- 334 **OHIO.** Comparative schedules showing the location, cost, cost of equipment, annual earnings, operating expenses, taxes, etc., of railroads in New York, Pennsylvania, Massachusetts, Connecticut and Ohio. E. W. Harrison, comp. Jersey City, 1885. unpagcd, 25 x 10, pap.
- 147 **OHIO & INDIANA R. R.** Report on the O. & I. and the Fort Wayne & Chicago R. R. Cos. W. H. Wilson. Phil., 1856. 19 pp., 9 x 6, pap.
- 31 **OHIO & MISSISSIPPI R. R.** General rules for the Conductors and Engineers. 19 pp., 7 x 5, cl. no title-page.
- 326 —Memoranda of operations on the O. & M. R. R.; made while serving as Vice-President and Superintendent of the Company, 1862-63. W. J. McAlpine. 2 v., 13 x 7, sh. no title-page. manuscript.
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- 146 **OHIO & PENNSYLVANIA R. R.** Exhibit explanatory of the seven per cent. special mortgage convertible bridge bonds; whole issue, \$250 000. Phil., 1856. 15 + 1 pp., 9 x 6, pap.
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- 151 —Public sale of 125 421.79 acres of selected farming, timbered and mineral lands on both sides of main line and Southwest Branch of P. R. R., in tracts of 40 acres and upwards. sale to commence Oct. 3d, 1859, at Court House in St. Louis City. St. Louis, 1859. 57 pp., map, 9 x 6, pap.
- 214 **PENNSYLVANIA.** Appeal to the Executive of Pennsylvania: An address to the Governor. invoking the aid of the State against unlawful acts of corporations, presented Aug. 15th, 1878. Petroleum Producers Union. Titusville, Pa., 1878. 24 pp., 9 x 6, pap.
- 334 —Comparative schedules showing the location, cost, cost of equipment, annual earnings, operating expenses, taxes, etc., of railroads in New York, Pennsylvania, Massachusetts, Connecticut and Ohio. E. W. Harrison, comp. Jersey City, 1885. unpagcd, 25 x 10, pap.
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- 208 — Pennsylvania's industries and railroad policy: An address delivered before the Legislature of Pennsylvania, at Harrisburg, on Monday evening, Apr. 8th, 1869. Andrew Carnegie. no place, no date. 40 pp., 9 x 6, pap.
- 149 — Reasons of the Board of Directors for declining to offer to purchase the main line of the state works; with a copy of the act of Assembly authorizing the sale. Phil., 1854. 30 pp., 9 x 6, pap.
- 97 — Report of the Investigating Committee, appointed by resolution of the Stockholders at the annual meeting held Mar. 10th, 1874. Phil., 1874. 240 pp., maps, 9 x 6, pap.
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- 98 — Argument, before the Joint Committee of the Legislature of Pennsylvania, appointed to inquire into the affairs of the P. & R. Coal & Iron Co. and the P. & R. R. Co., at Atlantic City, N. J., on July 28th-31st, 1875, against those companies. J. Q. Lane and S. W. Pettit. Phil., 1875. 94 pp., 9 x 6, pap.
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- 193 **RICHMOND & DANVILLE R. R.** Appendix to the thirtieth annual report; being a supplementary report of the General Superintendent on the cost of transportation. Richmond, 1878. 30 pp., 9 x 6, pap.
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- 292 **ROSSI, ADOLFO.** Osservazioni circa gli "Appunti di un tecnico" sul coefficiente d'esercizio delle reti ferroviarie Mediterranea ed Adriatica. Rome, 1898. 39 pp., 10 x 7, pap.
- 291 **RUSSIA.** Note sur les conditions dans lesquelles s'effectuent les transports des céréales dans la Russie méridionale; rapport adressé à M. le Ministre des Travaux Publics. Ernest Pontzen. Paris, 1881. 47 pp., 9 x 6, pap.
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- 294 **ST. LOUIS UNION MERCHANTS' EXCHANGE.** Report of the Transportation Bureau, submitted to the Executive Committee, Apr. 12th, 1876. St. Louis, 1876. 95 pp., 9 x 6, pap.
- 100 **SAVANNAH, FLORIDA & WESTERN RY.** Annual inspection; 3d; 1886. Note: Unfilled form. Savannah, 1886. 1 v., 8 x 11, pap.
- 192 — And Charleston & Savannah Ry. and Brunswick & Western R. R. Annual inspection; 5th; 1888. no place, no date. 1 v., 11 x 8, pap.
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- 203 **SOUTHERN RY. & STEAMSHIP ASSOCIATION.** Statement of western business by all lines for each of two years from Apr. 10th, 1881, to Apr. 10th, 1883, from all western cities to all competitive points in the South and Southeast. (Circular letter No. 59. Ser. 1882-83.) Macon, 1883. pp. 974-1003, 9 x 6, pap.
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- 338 **SUMATRA.** Réseau des chemins de fer de l'état à Sumatra. J. W. Post. Paris, 1891. 20 pp., pl., 12 x 9, pap.
- 148 **SUNBURY & ERIE R. R.** By-laws of the Board of Managers; together with the charter and its supplements. Phil., 1852. 34 pp., 9 x 5, pap.
- 339 **SWEDEN.** Railways in Sweden: Their cost, gauge and speed. C. P. Sandberg. Lond., no date. 3 pp., map, 14 x 10, pap.
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- 103 **UNION PACIFIC R. R.** Great U. P. R. R. excursion from New York City to the one-hundredth meridian of longitude, Oct., 1886. N. Y., 1867. 84 pp., 9 x 6, pap.
- 107 — Overland route to the Pacific: A report on the condition, capacity and resources of the U. P. and Central P. Rys. E. H. Derby. Bost., 1869. 97 pp., 9 x 6, pap.
- 106 — From Omaha, Neb., across the Continent; its construction, resources, earnings and prospects. N. Y., 1867. 16 pp., map, 9 x 6, pap.
- 178 — The great national highway between the Missouri River and California; the direct route to Colorado, Idaho, Utah, Montana, Nevada and California. Chic., 1868. 13 + 2 pp., 9 x 6, pap.
- 810 — Report on the U. P. Ry. and its branches; the Central P. Ry. and its branches; the Central Branch of the U. P. R. R.; the Sioux City & P. R. R.; also on auxiliary and leased lines, Oct. 15th, 1887. R. P. Morgan, Jr. no place, no date. pp. 4437-5394, 9 x 6, pap.



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- 104 **UNION PACIFIC RY., EASTERN DIVISION.** Senatorial excursion party over the U. P. Ry., Eastern Division; speeches on the P. R. R. question; proceedings of meetings of excursionists; proceedings of meeting of citizens of New Mexico; report of President of U. P. Ry., Eastern Division, made to the Secretary of the Interior, for the year ending Sept. 30th, 1867; exhibits of earnings, etc. St. Louis, 1867. 82 pp., map, 9 x 6, pap.
- 224 **UNITED STATES.** Address to the merchants of Chicago and Ry. Managers of the Northwest, in reply to "An Interior view of the Buffalo Convention; its bearing upon Northwestern interests"; by a member of a convention. Note: Article on railway rates. Pittsburgh, 1859. 16 pp., 9 x 6, pap.
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- 86 — Argument before the Committee on Commerce of the Senate of the United States, in opposition to the Reagan Bill, for the regulation of Inter-state Commerce by railway. G. R. Blanchard. N. Y., 1879. 68 pp., 10 x 6, pap.
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- 200 — Competition in transportation, with special reference to competition between the Mississippi River and the Trunk Railroads, extending from St. Louis to the Atlantic Seaboard. Joseph Nimmo, Jr. Wash., 1881. 38 pp., 9 x 6, pap.
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- 126 — Investigation into the cost of passenger traffic on American Railroads, with special reference to cost of mail service and its compensation. Albert Fink. Louisville, 1876. 8 + 59 + 20 pp., 9 x 6, pap.
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- 115 — Postal cars, or no postal cars? A question to be settled by the action or inaction of Congress. Isaac Hinckley. Phil., 1874. 35 pp., 9 x 6, pap.

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- 131 — Proceedings, 1855. Southern Railroad Convention. Note: A meeting of the representatives of various Southern Railroad Companies for the purpose of adjusting railroad rates. Savannah, 1855. 11 pp., 7 x 5, pap.
- 179 — Proceedings of the . . . Convention held at the St. Nicholas Hotel, New York, Sept. 25th, 1858. New York R. R. Convention. Note: A meeting of the representatives of the Baltimore & Ohio, Pennsylvania, New York & Erie and New York Central R. Rds., to adjust rates. N. Y., 1858. 13 pp., 9 x 6, pap.
- 223 — Proceedings of the Convention held at the St. Nicholas Hotel, New York, July 18th, 1860. New York R. R. Convention. Note: A meeting of the representatives of the Great Western, Michigan Central, New York & Erie, etc., to consider the adjustment of railroad rates. Albany, 1860. 10 pp., 9 x 6, pap.
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- 226 — Railroads in the U. S.; their effect on farming and production in that country and in Great Britain. Edward Atkinson. (*Fortnightly Review*, July, 1880.) Lond., 1880. 27 + 33 pp., 12 x 9, pap.
- 114 — Railroads vs. postal cars: A letter to the Postmaster-General discussing the question of compensation to railroads for the transportation of the mails. G. S. Bangs. Wash., 1874. 44 pp., 9 x 6, pap.
- 295 — Reciprocity of transportation facilities between the United States and the Dominion of Canada; and the Canadian Pacific Ry. Joseph Nimmo, Jr. Wash., 1884. 11 pp.; map, 9 x 6, pap.
- 199 — Regulation of Interstate Commerce by Congress: Testimony before the Select Committee on Interstate Commerce of the United States Senate. Albert Fink. Wash., 1885. 40 pp., 9 x 6, pap.
- 130 — Relation of the Federal Government to the railroads; or, A review of the controversy between the Post-Office Department of the United States and the railways, in respect to the so-called postal car service. D. A. Wells. N. Y., 1874. 57 pp., 9 x 6, pap.
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- 108 — Route to the Seaboard: Mississippi River against trans-continental railroads. John Cowdon. New Orleans, 1877. 21 + 2 pp., map, 9 x 6, pap.
- 33 — Statistics regarding the movement of eastbound and westbound traffic over the Trunk lines and connecting roads, during 1884; also showing grain receipts at and exports from the Atlantic cities for various periods; ocean rates, inland traffic, etc.; 1862-84. N. Y., 1884-85. 2 v., 9 x 6, pap.
- 257 — Tables of the receipts and expenditures of American railways from 1881 to 1883. Charles Eason, Jr. Dublin, 1884. sheet, 21 x 17, pap.
- UNITED STATES—BUREAU OF STATISTICS.** Governmental regulation of railroads in the United States. 1881. (See Zd-16, Annual report, 1880-81, Pt. 2, p. 32.)
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- 342 **UNITED STATES—RAILWAY MAIL SERVICE.** Report of the General Superintendent of Railway Mail Service, June 1890-June 1893. (Post Office Department.) Wash., 1890-93. 4 v., 9 x 6, pap.
- 268 **VERMONT CENTRAL R. R.** Letter to the Shareholders of the V. C. R. R. Josiah Quincy, Jr. Bost., 1852. 26 pp., 9 x 6, pap.
- 311 **WESTERN MARYLAND R. R.** Report of the Commission to investigate the affairs of the W. M. R. R. and the interest of the city therein, to the Mayor and City Council of Baltimore; together with the reports of Stephen Little and H. T. Douglas. Baltimore-City Council. Note: Second and final report. Balt., 1893. 75 + 90 + 36 pp., map, 9 x 6, cl.
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- 78 **WILMINGTON & READING R. R.** By-laws of the Board of Directors; together with the charter of the company. Reading, 1867. 51 pp., 9 x 6, pap.
- 392 **YAZOO & MISSISSIPPI VALLEY R. R.** Report of annual inspection of track, showing comparative standing of each section, 1899. Illinois Central R. R. Co, and the Y. & M. V. R. R. Co. Chic., 1899. 1 v., 14 x 10, pap.
- 267 **YORK & CUMBERLAND R. R.** Statement of the Directors upon the removal of F. O. J. Smith, from the office of President of said Company. Portland, Me., 1851. 64 pp., 9 x 5, pap.

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- ADIRONDACK RY.** Articles of Association and by-laws. 1883. (See Ae-44.)
- AKRON BRANCH OF THE CLEVELAND & PITTSBURGH R. R.** Acts to incorporate the Akron Branch of the C. & P. R. R.; and the Charter and by-laws of the same. Ohio-General Assembly. 1852. (See Ab-24, p. 805.)
- 236 **ALABAMA, FLORIDA & GEORGIA R. R.** Communication to the Committee on Public Lands, relative to the A., F. & G. R. R. J. G. Totten. (25th Cong., 3d Sess. House doc., 198.) Wash., 1839. 2 pp., 9 x 6, pap.
- 256 —Memorial to Congress praying to be allowed to purchase five hundred thousand acres of the Government land on a credit of six years; and also asking an extension of three years on their bonds for the payment of the duties on certain railroad iron imported by them. (25th Cong., 3d Sess. Senate, No. 37.) Wash., 1838. 3 pp., 9 x 6, pap.
- 3 —Report of the Committee on Naval Affairs relative to the memorial of the A., F. & G. R. R. Co., and the memorials of numerous citizens of Alabama and Florida, asking Congress to grant the alternate sections of the public land through which the contemplated road will pass, to the said railroad company, to aid in the construction thereof. (30th Cong., 1st Sess. House rep., 230.) no place, 1848. 15 pp., 9 x 6, pap.
- 222 **ALBANY & SCHENECTADY R. R.** Act to authorize the consolidation of the A. & S. Schenectady & Troy, Utica & Schenectady, Syracuse & Utica, Rochester & Syracuse, the Buffalo & Lockport, the Mohawk Valley, the Syracuse & Utica Direct, Buffalo & Rochester, Rochester, Lockport & Niagara Falls R. R. Companies. Note: The companies consolidated by this act formed the N. Y. Central R. R. Co. Albany, 1853. 1 p., 10 x 7, b. p. no title-page.
- 5 **ALBANY & SCHENECTADY R. R. CO. and others.** Agreement whereby the said companies are consolidated into one corporation under the name of "The New York Central R. R. Co." in pursuance of an act of the Legislature of the State of New York, entitled "an act to authorize the consolidation of certain railroad companies," passed Apr. 2d, 1853. Albany, 1853. 36 pp., 9 x 6, b. p.
- 192 **ALBANY & SUSQUEHANNA R. R.** Opinion of the Justice of the Supreme Court in the People against the A. & S. R. R. Co. and others. E. D. Smith. Albany, 1870. 16 pp., 9 x 6, b. p.
- 194 —Opinion of the Judge of the Supreme Court in the cases of the A. & S. R. R. Co. against Abraham A. Stanton and others, May 25th, 1854. Willard. Albany, 1854. 13 pp., 9 x 6, pap.
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- 190 —Report of the Select Committee to which was referred petition for aid to the A. & S. R. R.; transmitted to the Legislature, Jan. 16th, 1860. N. Y.-Senate. Albany. 1860. 23 pp., 9 x 6, pap.
- ALBANY & WEST STOCKBRIDGE R. R.** Communication in answer to a resolution of the Assembly, Mar. 4th, 1841, transmitting the copy of an agreement therein referred to. Note: Agreement between the A. & W. S. R. R. Co., and the Western R. R. Corporation. Albany, 1841. 8 pp., 9 x 6, b. p. Ab-5, p. 535.
- 287 **ASHTABULA, YOUNGSTOWN & PITTSBURGH R. R.** First mortgage, thirty-year, seven per cent. gold bonds; with a cumulative sinking fund, interest and principal payable in New York. Pittsburg, no date. 37 pp., maps, 9 x 6, pap.



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- 249 **ATLANTIC & GREAT WESTERN RY. and PHILADELPHIA & READING R. R.** Agreement, Jan. 10th, 1866. Note: Agreement relative to freight and passenger traffic. Phil., 1866. 19 pp., 9 x 6, pap.
- ATLANTIC & PACIFIC R. R.** Act of Congress to facilitate the construction of a military and post road from the valley of the Mississippi River to San Francisco, in California, or other place on the Pacific Ocean. no place, no date. 6 pp., 8 x 6, b. p. Ab-3, p. 531.
- Charter and by-laws of the A. & P. R. R. Co.; incorporated July 21st, 1853. N. Y., 1853. 22 pp., 9 x 6, b. p. Ag-7, p. 77.
- AUBURN & EEL RIVER VALLEY R. R.** Articles of association and by-laws. 16 pp., 7 x 4, b. p. no title-page. Ae-32, p. 49.
- 212 **AUSTRIA.** Die österreichische Regierungsvorlage betreffend den Entwurf eines Gesetzes, womit Bestimmungen für die Anlage und den Betrieb von Localbahnen und Kleinbahnen getroffen werden. E. A. Ziffer. Note: Reprinted from *Der Bautechniker*. 3 + 3 pp., 14 x 11, pap. no title-page.
- BALTIMORE & OHIO R. R.** Act to incorporate the B. & O. R. R. Co.; passed at December Session, 1826. Maryland-General Assembly. Balt., 1827. 24 pp., 9 x 5, b. p. Ag-275, v. 1, p. 41.
- Contract between the city of Wheeling and the B. & O. R. R. Co.; with a recent correspondence between the President of the Company and a Committee of the City. Richmond, Va., 1850. 24 pp., 9 x 5, b. p. Ah-25, p. 1013.
- 4 **BALTIMORE & SUSQUEHANNA R. R.** Laws and ordinances relating to the B. & S. R. R. Co. Balt., 1850. various pagings, 9 x 5, b. p.
- 207 **BEECH CREEK, CLEARFIELD & SOUTHWESTERN R. R.** Arguments opening and closing, of the counsel for plaintiff, in the case of Frank McLaughlin vs. the B. C., C. & S. W. R. R. Co., and George J. Magee; in the Court of Common Pleas of Clinton County, No. 72, Jan., 1886; delivered before Robert H. Sayre, W. H. Nearing and John A. Wilson, Arbitrators, at Lock Haven, Pa., July 22d, 1886. W. C. Kress. Lock Haven, 1886. 89 pp., 9 x 5, pap.
- 277 —Court of Common Pleas of Clinton County, 72d January Term, 1886, testimony submitted by agreement to arbitrators. Frank McLaughlin and others. Note: Case relative to certain contracts for work in constructing the B. C., C. & S. W. R. R. no place, no date. 187 pp., 9 x 6, pap.
- 206 —Frank McLaughlin vs. George J. Magee, General Contractor, and the B. C., C. & S. W. R. R. Co.; before Robert H. Sayre, W. S. Nearing and John A. Wilson, Arbitrators: Argument on behalf of defendants, delivered at the Court House, at Lock Haven, Pa., July 22d, 1886. M. E. Olmsted. Note: Stenographically reported by A. C. Stamm. no place, no date. 92 pp., 10 x 6, pap.
- 266 **BOSTON & CHICAGO RY. TRUST CO.** Bill to incorporate the B. & C. Ry. Trust Co., to be presented to the Massachusetts Legislature of 1875. Bay State Transportation League. Bost., 1874. 32 pp., 9 x 6, pap.
- BRAZOS & COLORADO R. R.** Act to incorporate the B. & C. R. R. Co., 1852. (See Ag-7, p. 539.)
- 252 **BUFFALO.** Act to provide for the relief of the City of Buffalo and to change and regulate the crossing and occupation of the streets, avenues and public grounds in said city by railroads; Chapter 345. New York-Legislature. Note: Approved by the Governor, May 22d, 1888. Buffalo, 1888. 18 pp., 6 x 4, pap.
- BUFFALO BAYOU, BRAZOS & COLORADO R. R.** Act to amend the 13th, 16th and 17th sections of the act to incorporate the B. B., B. & C. R. R. Co., 1852. (See Ag-7, p. 404.)
- 170 **BYTOWN & PRESCOTT RY.** Act for the incorporation of a company to construct a railroad between Bytown and Prescott, 10th May, 1850, also an Act to amend the act incorporating the B. & P. Ry. Co., 30th Aug., 1851. Canada-Legislative Assembly. Bytown, Can., 1852. 30 pp., 8 x 5, pap.
- 80 **CALIFORNIA.** Senate Bill, No. 360, introduced Feb. 14th, 1878: An act for the prevention of unjust discrimination and for the regulation of freights and fares on railroads in California. I. W. Smith. 6 pp., 12 x 9, pap. no title-page.
- 41 —Act relative to the Commissioners of Transportation; their powers and duties. Sacramento, 1876. 8 pp., 9 x 6, pap.
- 40 —Explanation of tables 1 to 9, hereto appended, and of Act No. 3, in the supplementary report of the Transportation Commissioners, 1878. Note: Laws of California relating to railroads. Sacramento, 1878. 13 pp., tab., 9 x 6, pap.
- 283 **CATAWISSA R. R. CO. and PHILADELPHIA & READING R. R. CO., vs. NORTH & WEST BRANCH RY. CO.** Bill in equity in the Court of Common Pleas of Columbia County. Note: Relative to crossing of tracks at Rupert, Pa. Bloomsburg, Pa., 1882. 188 pp., 9 x 6, pap.
- 253 **CENTRAL PACIFIC R. R.** Memorial to Congress on the subject of the C. P. R. R. Missouri-General Assembly. (31st Cong., 1st Sess. Senate, misc. No. 25.) Wash., 1850. 4 pp., 9 x 6, pap.
- 25 —Opinions in the Pacific R. R. cases—Thurman Act; with material portions of the acts. U. S.-Supreme Court. N. Y., 1879. 66 pp., 9 x 6, pap.

## Af—(Continued).

- CENTRAL R. R. OF NEW JERSEY.** In the Circuit Court of the United States, District of New Jersey. On motion for interlocutory injunction. Argued, Mar. 24th, 1853. Charles Goodyear and the New England Car-Spring Co. vs. The C. R. R. of N. J. Note: Suit relates to alleged infringement of the plaintiff's patent on rubber car-springs. N. Y., 1853. 15 pp., 9 x 6, b. p. Ad-2, p. 139.
- 173 **CHERRY VALLEY & MOHAWK RIVER R. R.** Charter of the C. V. & M. R. R. R. Co. New York-Legislature. Albany, 1864. 20 pp., 9 x 6, pap.
- 8 **CHICAGO & BURLINGTON R. R.** Trial of O. T. Caldwell. Note: Tried on the charge of embezzlement while conductor on the C. & B. R. R. 1855. 35 pp., 9 x 5, b. p. no title-page.
- 36 **CHICAGO & NORTHWESTERN R. R.** How will the United States Supreme Court decide the Granger railroad cases? D. A. Wells. Note: Reprinted from *The Nation*, Oct. 29th, 1874. 19 pp., 9 x 6, pap. no title-page.
- 36 **CHICAGO & ST. PAUL R. R.** How will the United States Supreme Court decide the Granger railroad cases? D. A. Wells. Note: Reprinted from *The Nation*, Oct. 29th, 1874. 19 pp., 9 x 6, pap. no title-page.
- 267 **CHICAGO, BURLINGTON & QUINCY R. R. vs. HERMAN LEIB and others.** Supreme Court of Illinois—Grand Central Division, January Term, 1874. Appeal from Cook. no place, 1874. 22 pp., 9 x 6, pap.
- 200 **CHICAGO, ROCK ISLAND & PACIFIC R. R.** In the Supreme Court of the State of New York; statement and affidavits on behalf of the company, in opposition to motions for injunctions and receivers, made by Rufus Hatch, and Fisk, Belden & Co. and Edward R. Fanshawe, 1868. N. Y., 1868. 67 pp., 9 x 6, pap.
- CINCINNATI & SPRINGFIELD RY.** Contracts and cases. 1872. (See Ae-60.)
- 51 **CLEVELAND & PITTSBURGH R. R. and PENNSYLVANIA R. R.** Lease, Oct. 25th, 1871; to take effect Dec. 1st, 1871. Cleveland, 1871. 31 pp., 9 x 6, pap.
- CLEVELAND, COLUMBUS & CINCINNATI R. R.** Acts constituting the charter of the C., C. & C. R. R. Co. and authorizing corporate authorities to subscribe thereto. Ohio-General Assembly. Cleveland, 1848. 31 pp., 8 x 5, b. p. Aj-36, p. 121.
- 163 **CONNECTICUT.** Statutes relating specially to railroads, revised and corrected; and including the laws passed at the January Session, 1878. Hartford, 1878. 58 pp., 9 x 6, pap.
- Statutes relating especially to railroads. Railroad Commissioners, comp. 1871-99. (See Ah-15, annual reports.)
- 2 **CORNING & OLEAN R. R. and NEW YORK & ERIE R.R.** Articles of agreement. no place, 1853. 24 pp., 8 x 5, b. p.
- 211 **COVINGTON & LEXINGTON R. R.** Charter of the C. & L. R. R. Co. Kentucky-General Assembly. Note: Published by order of the City Council of Covington. Covington, 1849. 12 pp., 7 x 5, pap.
- 13 **DELAWARE, LACKAWANNA & WESTERN R. R.** Acts relating to the D., L. & W. R. R., also the acts incorporating the Cayuga & Susquehanna, the Lackawanna & Bloomsburg, and the Warren R. R. Companies; and the general laws of Pennsylvania, New York and New Jersey relative to railroads. Pennsylvania-General Assembly. N. Y., 1856. 93 pp., 8 x 5, b. p.
- 176 **DUBUQUE & KEOKUK R. R.** Resolutions in favor of a grant of land to aid in the construction of the D. & K. R. R. Iowa-General Assembly. (30th Cong., 2d Sess. Senate misc. No. 16.) Wash., 1849. 7 pp., 9 x 6, pap.
- 286 **EASTERN R. R.** Argument on behalf of the E. R. R., at a hearing on the petitions of David Pingree and others and W. J. Valentine and others before the Railroad Committee of the Massachusetts Legislature, Mar. 7th, 1845. C. G. Loring. Note: The petitioners prayed that a charter be granted to a railroad company whose line would run parallel to the E. R. R. Bost., 1845. 88 pp., 9 x 6, pap.
- 224 —vs. Ross Winans. Inequity: Evidence for complainant, in United States Circuit Court, Massachusetts District, October Term, 1853. Note: Suit relates to the alleged infringement of the plaintiff's patent on the eight-wheel car. Bost., 1854. 439 pp., 11 x 7, ¾ sh.
- 225 —vs. Ross Winans. In Equity: Evidence for respondents, in United States Circuit Court, Massachusetts District, October Term, 1853. Note: Suit relates to the alleged infringement of the plaintiff's patent on the eight-wheel car. Bost., 1854. 1299 pp., pl., 11 x 9, ¾ sh.
- 223 **EDINBURGH & GLASGOW RY.** Act for making a railway from Edinburgh to Glasgow, to be called "the Edinburgh & Glasgow Railway," with a branch to Falkirk. (1st and 2d Victoria, Sess., 1838.) no place, 1838. 170 pp., 13 x 8, b. p.
- 223 —Act to amend the act relating to the E. & G. Ry. (3d and 4th Victoria, Sess., 1840.) no place, 1840. 14 pp., 13 x 8, b. p.
- 223 —Promoters' and Opponents' evidence taken before the Committee on the E. & G. Ry. Bill from 20th Mar. to 8th May. Glasgow, 1838. 2 v., 13 x 8, b. p.

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- 288 **ELECTRIC R. R. SIGNAL CO. vs. THE HALL RY. SIGNAL CO.** Suit in the Circuit Court of the United States for the District of Connecticut, to determine the validity of certain patents granted to Thomas S. Hall. Meriden, Conn., 1881. 7 pp., 7 x 4, pap.
- 12 **ELIZABETHTOWN & SOMERVILLE R. R.** Acts relative to the E. & S. R. R. Co. New Jersey-Legislature. Elizabethtown, 1839. 20 pp., 8 x 5, b. p.
- 16 **ERIE & CLEVELAND R. R.** Acts authorizing the Franklin Canal Co. to construct a railroad; together with the Charter of the Governor, and Proceedings of the Company; also the general railroad law of Pennsylvania; and the report of the Chief Engineer. Cleveland, 1850. 34 pp., 9 x 6, pap.
- ERIE & KALAMAZOO R. R.** Acts incorporating the E. & K. R. R. Co., and Bank; passed 1833, 1835 and 1836. Michigan (Territory)-Legislative Council. (See Aj-36, p. 13.)
- 195 **ERIE RY.** The people, etc., on the complaint of Frank Platt, Alexander Robertson and Charles Barrett vs. Hugh J. Jewett; charge of perjury. H. J. Jewett. Note: Relates to the statement of the accounts of the E. Ry. Co., in the annual report of the Receiver. no place, 1878. 6 pp., 11 x 7, pap. no title-page.
- 196 —The people vs. Hugh J. Jewett; accusation of perjury; memoranda by George F. Comstock. H. J. Jewett. Note: Relates to the statement of the accounts of the E. Ry. Co., in the annual report of the Receiver. N. Y., 1878. 10 pp., 10 x 7, pap.
- 198 —*et al. vs. Farmers' Loan and Trust Co.* Supreme Court, City and County of New York; affidavits relative to the statements of accounts made by the Receiver and Auditor of the E. Ry. Co. no place, 1878. various pagings, 10 x 7, pap. no title-page.
- 219 **ESTRADA DE FERRO DA BAHIA AO SAN FRANCISCO, PROLONGAMENTO DA.** Regulamento para o serviço do tráfego e construção do prolongamento da Estrada de Ferro da Bahia ao San Francisco. Brazil-Ministro e Secretario de Estado dos Negocios da Agricultura. Commercio e Obras Publicas. Bahia, 1891. 47 pp., 8 x 6,  $\frac{3}{4}$  skiv.
- 215 **EUROPEAN & NORTH AMERICAN RY.** Act to incorporate the E. & N. A. Ry. Co. Maine-Legislature. no place, 1850. 13 + 1 pp., 8 x 5, b. p.
- 215 —Acts incorporating the E. & N. A. Ry., and facilitating the construction of the road: passed 15th and 28th March, 1851. New Brunswick-General Assembly. Fredericton, 1851. 31 + 2 pp., 8 x 5, b. p.
- 215 —Documents in relation to the E. & N. A. Ry. Maine-Legislature. Portland, 1851. 155 + 1 pp., map, 8 x 5, b. p.
- 215 —Petition of the Executive Committee for the State of Maine, to the Senate and House of Representatives of Massachusetts for aid to construct the E. & N. A. Ry. Portland (Me.) Railway Convention. no place, 1851. 9 pp., 8 x 5, b. p.
- 215 —Proceedings. New Brunswick-General Assembly. Note: Extract from the Journal of the Legislature, of Proceedings relative to the E. & N. A. Ry. no place, 1851. 3 pp., 8 x 5, b. p.
- 215 —Report of the Joint Special Select Committee, to whom was referred the petition of the Executive Committee of the State of Maine to promote the construction of the E. & N. A. Ry., praying assistance from the Commonwealth. Massachusetts-General Court. no place, 1851. 6 pp., 8 x 5, b. p.
- 16 **FRANKLIN CANAL CO.** Acts authorizing the Franklin Canal Co. to construct a railroad; together with the Charter of the Governor and Proceedings of the Company; also the general railroad law of Pennsylvania; and the report of the Chief Engineer. Cleveland, 1850. 34 pp., 9 x 6, pap.
- GALVESTON & RED RIVER RY.** Act supplementary to the act to establish the G. & R. R. Ry. Co. Texas-Legislature. 1852. (See Ag-7, p. 333.)
- 241 —Memorial praying that the G. & R. R. Ry. Co. may be granted the privilege of extending their railroad through the territory of the United States to the Pacific Ocean. Ebenezer Allen and others, (30th Cong., 2d Sess. Senate, misc., No. 33.) Wash., 1849. 8 pp., 9 x 6, pap.
- Prospectus and charter. 20 pp., 9 x 6, b. p. no title-page. Ab-3, p. 511.

## GENERAL.

**ADAMS, C. F., Jr.** Railroad Legislation. Note: From the *American Law Review*. Bost., 1868. 30 pp., 9 x 6, b. p. Aj-3, p. 77.

**GOODYEAR, HENRY B. vs. Railroad Car Ventilating Co.** Report of the entire testimony as taken before Commissioners . . . and the decision of the Patent Office awarding to Henry B. Goodyear, as Administrator of Nelson Goodyear, assignee of E. Hamilton, the priority of invention for deflecting windows for railroad cars; together with the opinion of Charles M. Keller, and the several patents granted. N. Y., 1853. 15 + 84 pp., pl., 9 x 6, b. p. Ad-2, p. 155.



## Af—(Continued).

## GENERAL—(Continued).

- HUBBELL, W. W.** Arguments on behalf of the defendants, before Samuel Nelson, in the case of *Ross Winans vs. Orsamus Eaton, et al.*, commonly known as the "eight-wheel railroad car case," alleged to infringe Ross Winans' patent of Oct. 1st, 1834. Albany, 1853. 200 pp., 9 x 6, b. p. Ad-251, p. 331.
- 265 **SHINN, W. P.** Relation of railways to the state. Note: Written for and reprinted from *The Railway Review*, Mar. 6th-13th, 1886. Chic., 1886. 15 pp., 8 x 6, pap.
- 218 **WALWORTH, R. H.** Opinion; and decision as to taxation of railroad corporations. N. Y., 1853. 12 pp., 7 x 4, b. p.
- GREAT BRITAIN.** By-laws and regulations made for regulating the travelling upon railways. Note: Model generally adopted by railway companies and generally approved by the Committee of Her Majesty's Privy Council for Trade and Foreign Plantations. no date. (See Ae-327.)
- Du régime des travaux publics en Angleterre. Charles de Franqueville. Contents: v. 1, Chemins de fer; v. 2, wanting; v. 3, Législation des chemins de fer; v. 4, Législation des voies de terre, législation de la navigation, législation des bills privés. 1875. (See Aa-41.)
- 214 —Treatise on the law of railway companies, in their formation, incorporation, and government; with an abstract of the statutes and a table of forms. Thomas Chambers and A. T. T. Peterson. Lond., 1848. 804 pp., 9 x 6, bds.
- 273 —**GREAT BRITAIN—LIGHT RAILWAY COMMISSIONERS.** Order made by the Commissioners and modified and confirmed by the Board of Trade, authorizing the construction of a light railway in the County of Cornwall, from the Helston Railway to the Lizard Village. Lond., 1898. 18 pp., 13 x 8, pap.
- 272 —Order made by the Commissioners and modified and confirmed by the Board of Trade, authorizing the construction of light railways between Flamborough and Bridlington in the East Riding of the County of York. Lond., 1898. 32 pp., 13 x 8, pap.
- 271 —Order made by the Commissioners and modified and confirmed by the Board of Trade, authorizing the construction of light railways between Peakirk in the County of Northampton and Portland in the County of Lincoln. Lond., 1898. 22 pp., 13 x 8, pap.
- 275 —Order made by the Commissioners and modified and confirmed by the Board of Trade, authorizing the construction of light railways between Tonbridge, Yalding Station, Hadlow and Winfield Mill, in the County of Kent. Lond., 1898. 23 pp., 13 x 8, pap.
- 274 —Order made by the Commissioners and modified and confirmed by the Board of Trade, authorizing the construction of light railways in the Potteries District of Staffordshire. Lond., 1898. 31 pp., 13 x 8, pap.
- GREAT WESTERN RY. OF CANADA.** Rights of stockholders in railroad corporations considered; the power of the directors or any majority of the corporators, or of the Legislature, to authorize a subscription to the Great Western Railroad, Canada West, against the objection of any stockholder, denied; opinion of the Court of Chancery of Vermont in a similar case, affirming this doctrine. N. Y., 1852. 43 pp., 9 x 6, b. p. Ah-24, p. 463.
- 257 **GREAT WESTERN RY. OF ILLINOIS.** Memorial praying the right of pre-emption to the lands through which the said road may pass. (28th Cong., 1st Sess. Senate, No. 12.) Wash., 1843. 5 pp., 9 x 6, pap.
- 7 **GREEN BAY, MILWAUKEE & CHICAGO R. R.** First report of the Chief Engineer of the G. B., M. & C. R. R.; presented to the Board of Directors, Aug. 2d, 1852, with a copy of the Charter of the Company and amendments thereto, as granted by the Legislature of Wisconsin. C. R. Alton. Milwaukee, 1852. 14 + 1 pp., map, 9 x 5, b. p.
- 7 **HANNIBAL & ST. JOSEPH R. R.** Charter and amendments, with other laws and documents exhibiting the organization of the H. & St. J. R. R. St. Louis, 1853. 30 pp., 9 x 5, b. p.
- 248 —Communication to the Committee on Public Lands in relation to Bill S. 248 granting the right of way and land for the St. J. & H. R. R. J. S. Green and W. P. Hall. (30th Cong., 1st Sess. Senate, rep., 178.) Wash., 1848. 13 pp., 9 x 6, pap.
- 7 —Documents in relation to the H. & St. J. R. R. Co. N. Y., 1853. 25 pp., 9 x 5, b. p.
- HEMPFIELD R. R.** Argument in favor of the constitutionality of the subscription by the city of Philadelphia to the capital stock of the Hempfield, and Philadelphia, Easton & Water Gap R. R. Companies; delivered before the Supreme Court of Pennsylvania, 25th July, 1853, in the case of Sharpless and others vs. the Mayor, aldermen and citizens of Philadelphia. J. M. Read. Phil., 1853. 31 pp., 9 x 6, b. p. Ag-5, p. 817.
- HENDERSON & BURKVILLE R. R.** Act to incorporate the H. & B. R. R. Co. Texas-Legislature. 1852. (See Ag-7, p. 433.)

Af—(*Continued*).

- 218 HUDSON RIVER R. R. Act further to amend an "Act to authorize the construction of a railroad from New York to Albany"; passed Feb. 10th, 1848. New York-Legislature. no place, no date. 9 pp., 8 x 5, b. p.
- 222 —And the New York Central R. R. Co. Agreement of consolidation, Sept. 15th, 1869. 13 pp., 9 x 5, b. p. no title-page.
- 218 —Amended act of incorporation of the H. R. R. R. Co.; by-laws and extracts from general laws relating to railroads. New York-Legislature. N. Y., 1853. 37 + 7 pp., 8 x 5, b. p.
- 218 —Amended act of incorporation of the H. R. R. R. Co.; by-laws and extracts from revised statutes. New York-Legislature. N. Y., 1847. 54 pp., 8 x 5, b. p.
- 218 —Copy of Second mortgage. 6 pp., 8 x 5, b. p. no title-page.
- 218 —*vs.* Susannah Drake and others. In the Supreme Court of New York; motion enjoining the defendants from constructing a railroad on certain streets in the city of New York, denied by the Court. 38 pp., 8 x 5, b. p. no title-page.
- 5 ILLINOIS. General railroad law. no place, 1852. pp. 21-45, 9 x 6, b. p.
- Rules of practice in all cases and proceedings before the Railroad and Warehouse Commission. 1893. (See Ae-316.)
- 227 ILLINOIS CENTRAL R. R. CO. *et al. vs.* S. H. Turrill. Additional testimony before the Master, Nov. and Dec., 1873, in the United States Circuit Court, Northern District of Illinois. Chic., 1873. 559 pp., 11 x 7, ¾ sh.
- 226 —*et al. vs.* Samuel Turrill. Pleadings and testimony for complainant; in the United States Circuit Court, Northern District of Illinois. Note: Suit relates to the alleged infringement of a patent on a machine for repairing rails. Chic., 1873. 300 pp., 11 x 7, ¾ sh.
- Documents relating to the organization of the Illinois Central R. R. Co. N. Y., 1851. 146 + 1 pp., 10 x 8, b. p. Ag-286, p. 109.
- 239 —Report on a "Bill to grant to the State of Illinois certain alternate sections of the public lands, to aid in the construction of the Northern Cross and Central Railroads in said state." U. S.-Committee on Public Lands (Senate). (29th Cong., 1st Sess. Senate doc., 152.) Wash., 1846. 16 pp., 9 x 6, pap.
- 249 —Report on the bill granting to the State of Illinois, the right of way, and a donation of public lands for making a railroad connecting the Upper and Lower Mississippi with the chain of northern lakes at Chicago. (30th Cong., 1st Sess. Senate rep. No. 42.) Wash., 1848. 15 pp., 9 x 6, pap.
- 228 —United States Circuit Court, Northern District of Illinois—Samuel H. Turrill *vs.* the railroads: Brief for defendants on exceptions to the Master's report. Geo. Payson. Note: Suit relates to the alleged infringement of a patent on a machine for repairing rails. 33 pp., 11 x 8, pap. no title-page.
- INDIA. Copies of all contracts or agreements entered into by the East India Company, or by the present Council of India, with any company formed for making railways, public roads, canals, works for irrigation, or other public works in India, by which contracts or agreements a rate of interest is guaranteed upon the capital of such companies already paid up, or hereafter to be paid up. Railway and Telegraph Department. 1859. (See Ai-24.)
- 10 INDIANAPOLIS & ST. LOUIS R. R. CO. and others *vs.* ST. LOUIS, ALTON AND TERRE HAUTE R. R. CO. Record of Case No. 6257 in Chancery in the Circuit Court of the United States for the District of Indiana; including pleadings, opinions of Judges Gresham and Drummond and depositions of witnesses. St. Louis, no date. 383 pp., 9 x 6, pap.
- 1 IOWA. Statutes of Iowa relating to railroads, and notes of decisions thereunder; from the Report of the Railroad Commissioners for 1890. Emlin McClain. Des Moines, 1891. 157 pp., 9 x 6, bds.
- IOWA CENTRAL AIR-LINE R. R. Articles of incorporation; and laws of the State of Iowa, in relation to corporations, and granting to railroad companies the right of way. Cedar Rapids, Ia., 1853. 20 pp., 9 x 6, b. p. Ag-7, p. 271.
- 14 JAMESTOWN & FRANKLIN R. R. Charters of the J. & F. R. R. Co. and the Mercer Iron & Coal Co.; with supplements and other acts. Cleveland, 1864. 30 pp., 9 x 6, pap.
- 169 JUNCTION R. R. CO. *vs.* The Pennsylvania R. R. Co. and J. Edgar Thomson. Bill in equity in Supreme Court of Pennsylvania, Eastern District. Note: Suit to prove title to property. 8 pp., map, 9 x 6, pap. no title-page.
- 208 KANSAS. Final decision after rehearing; the Wichita Wholesale Grocery Co. and others, complainants, *vs.* the Atchison, Topeka & Santa Fé R. R. Co. and others, respondents. Board of Railroad Commissioners. Topeka, 1892. 9 pp., 9 x 6, pap.
- 48 LA GRANGE & MEMPHIS R. R. Compilation of the acts of the Legislatures of Tennessee, Alabama and Mississippi in relation to the Memphis & Charleston and La G. & M. R. R. Cos. Memphis, 1852. 56 pp., 8 x 5, pap.
- 289 LAWRENCE R. R. Exhibit of its charter, organization and mortgage. Pittsburg, 1866. 30 pp., 9 x 6, pap.

Af—(*Continued*).

- 54 **LEAVENWORTH, PAWNEE & WESTERN R. R.** Charter of the L., P. & W. R. R., and all laws of Kansas affecting its powers, duties and liabilities. Kansas (Territory)-Legislative Assembly. N. Y., 1862. 24 pp., 9 x 6, pap.
- LITTLE ROCK, PINE BLUFF & ARKADELPHIA SOUTHWESTERN R. R.** Act authorizing the construction of a bridge across the Mississippi River at St. Louis in the State of Missouri, and an act to authorize the L. R., P. B. & A. S. W. R. R. Co. to construct a bridge over the Ouachita River at or near Arkadelphia, Ark. no place, 1873. 5 pp., 7 x 5, b. p. no title-page. Ab-7, p. 673.
- LONDON & BIRMINGHAM RY.** Appendix to railway practice; containing a copious abstract of the whole of the evidence given upon the L. & B. and Great Western Ry. bills; to which is added a glossary of technical terms used in civil engineering; and the details of Hawthorn's celebrated locomotive engine for the Paris & Versailles Ry. S. C. Brees. 1839. (See Ac-149.)
- 168 **MAHANOV & BROAD MOUNTAIN R. R.** Act of incorporation of the M. & B. M. R. R. Co.; with its supplements and by-laws and the general railroad law of Pennsylvania. Pennsylvania-General Assembly. Phil., 1861. 20 pp., 9 x 6, pap.
- 8\* **MARIETTA & CINCINNATI R. R.** Charter of the M. & C. R. R. Co., passed Mar. 8th, 1845; together with amendments thereto, to which are affixed the by-laws of the company. N. Y., 1852. 43 pp., 9 x 5, b. p.
- 261 **MARQUETTE, SAULT STE. MARIE & MACKINAW R. R.** Plaintiff's points: Statement; in New York Supreme Court, General Term. C. B. Walter and others. Note: Suit brought to determine the amount that should be paid by the Defendants for the contract to construct the M., S. Ste. M. & M. R. R. no place, 1879(?) 11 + 1 pp., 11 x 7 pap. no title-page.
- 48 **MEMPHIS & CHARLESTON R. R.** Compilation of the Acts of the Legislatures of Tennessee, Alabama and Mississippi in regard to the Memphis & Charleston, and La Grange & Memphis R. R. Cos. Memphis, 1852. 56 pp., 8 x 5, pap.
- 178 **MEXICAN CENTRAL RY.** Amendment of Articles in the Concession of Sept. 8th, 1880; granted to the M. C. Ry. Co. Mexico-Department of State, Public Works, Colonization, Industry and Commerce. no place, 1883. 21 pp., 9 x 6, pap. no title-page.
- 179 —Further amendment of Articles in the Concession of Sept. 8th, 1880; granted to the M. C. Ry. Co. Mexico-Department of State, Public Works, Colonization, Industry and Commerce. no place, 1885. 37 pp., 9 x 6, pap. no title-page.
- 175 —Introductory report; Massachusetts laws; Mexican concession; by-laws. Bost., 1881. 239 + 13 pp., maps, 9 x 6, pap.
- 255 **MEXICAN SOUTHERN RY.** Charter, etc. Note: Pages after p. 64, wanting. no place, no date. pp. 1-64, map, 9 x 6, pap.
- 250 **MEXICO.** Republic of Mexico, and railroads: A brief review of her past history and present condition; a synopsis of railroad charters granted by the Federal Government since the fall of the Empire under Maximilian, and the re-establishment of the Republic under Benito Juarez. R. B. Gorsuch. N. Y., 1881. 45 pp., map, 9 x 6, pap.
- 184 —Charter for the building of a railroad between the Port of Anton Sizardo and the Pacific Ocean, through the State of Oaxaca; and Power of Attorney from the Governor of that State to transfer the Charter. N. Y., 1881. 33 pp., 9 x 6, pap.
- 213 **MICHIGAN CENTRAL R. R.** Statement, reply, and amended statement; made to the Referees to whom was submitted the determination of the compensation to be paid by the M. C. R. R. Co., for the use of the tracks of the Illinois Central R. R. Co. between Chicago and Calumet. Illinois Central R. R. Co. no place, 1860. various pagings, map, 10 x 8, pap. no title-page.
- MICHIGAN.** General Railroad Law of the State: An Act to provide for the incorporation of railroad companies. 1855. (See Af-8, p. 867.)
- 37 —General Railroad laws, including all laws affecting railroads passed by the Legislature of 1875; comp. by the Commissioner of Railroads. Lansing, 1875. 82 pp., 9 x 6, pap.
- 264 **MICHIGAN SOUTHERN & NORTHERN INDIANA R. R.** Brief for appellant. The M. S. & N. I. R. R. Co., appellant, vs. Samuel H. Turrill, appellee, in the Supreme Court of the United States, November Term, 1876. J. B. Niles. Note: Relative to machine used in mending rails. (Cawood patent). Chic., 1876. 64 pp., pl., 10 x 8, pap.
- 228 —United States Circuit Court, Northern District of Illinois. Samuel H. Turrill vs. the railroads: Brief for defendants on exceptions to the Master's report. George Payson. Note: Suit over the use of the "Cawood Block." 33 pp., 11 x 8, pap. no title-page.
- 7 **MILWAUKEE, FOND DU LAC & GREEN BAY R. R.** Acts incorporating the M., F. du L. & G. B. R. R. Co. Milwaukee, 1853. 42 pp., 8 x 5, b. p.
- 240 **MINE A LA MOTTE & MISSISSIPPI R. R.** Act to incorporate the M. á la M. & M. R. R. Co. Missouri-Legislature. (26th Cong., 1st Sess. Senate doc., 210.) Wash., 1840. 4 pp., 9 x 6, pap.



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- MINERAL POINT R. R.** Charter of the M. P. R. R. Co.; with amendments, also by-laws of said company. Mineral Point, Wis., 1853. 18 pp., 7 x 4, b. p. Ae-1, p. 369.
- MINNESOTA & PACIFIC R. R.** Grant of lands by the Minnesota (Territory) Legislative Assembly to the M. & P. R. R. Co. and others; together with an Act of Congress in relation to the same. St. Paul, 1857. 27 pp., 8 x 5, b. p. Ae-1, p. 321.
- MISSISSIPPI & MISSOURI R. R.** Abstract, pleadings and proof, and argument by N. B. Judd and G. C. Campbell, Counsel for defendant, on final hearing, Nov. 1st, 1859, in the District Court of the United States for the State of Iowa. James Ward vs. the M. & M. R. R. Co. Note: Plaintiff endeavors to prove that the Rock Island Draw Bridge interferes with navigation. 1859. (See Fd-63.)
- 15 — Acts of Congress and the State of Iowa, granting lands to the M. & M. R. R. Co. N. Y., 1864. 28 pp., 9 x 6, pap.
- 217 **MISSOURI.** Act to authorize the formation of railroad associations, and to regulate the same; approved Feb. 24th, 1853. St. Louis, 1853. 12 pp., 9 x 5, b. p.
- 217 — Veto message, and the Bill to secure the completion of certain railroads in the State of Missouri, with the speeches and ayes and noes. Jefferson City, 1855. 34 pp., 9 x 5, b. p.
- 244 **MISSOURI & MISSISSIPPI R. R.** Memorial asking a grant of land and the right of way through the public lands for the M. & M. R. R. Co. Missouri-Legislature. (31st Cong., 1st Sess. House, misc., No. 30.) Wash., 1860. 2 pp., 9 x 6, pap.
- 181 **MISSOURI, KANSAS & TEXAS RY.** Lines of road, location, its corporate rights, franchises and property; with appendices. N. Y., 1871. 254 pp., map, 9 x 6, cl.
- MOBILE & OHIO R. R.** Charter, laws and exhibit of the progress and condition, June, 1852. N. Y., 1852. 31 pp., 9 x 6, b. p. Ab-3, p. 463.
- 220 — Compendium of the several deeds of mortgage and trust made by said company to secure payment of its bonds; also laws of the several states through which its road passes; also Acts of Congress making a grant of land in aid of the construction of said road. Mobile, 1876. 4 + 74 pp., 9 x 6, b. p.
- 221 — *et al. vs. W. B. Duncan and A. F. Elliot.* Circuit Court of the United States, Fifth Judicial Circuit and Southern District of Alabama: Resolutions and agreements of the M. & O. R. R. Co., relating to issue of bonds; filed as evidence with Master's report of Apr. 6th, 1877. no place, no date. 39 pp., 9 x 6, b. p.
- 220 — *et al. vs. W. B. Duncan et al.* Circuit Court of the United States, Southern Judicial Circuit, Western District of Tennessee, in equity: Decree made Nov. 12th, 1877. Note: Relative to the sale of the M. & O. R. R. 15 pp., 9 x 6, b. p. no title-page.
- 220 — *et al. vs. W. B. Duncan et al.* United States Circuit Court, Fifth Southern District of Alabama; consolidated causes in equity: Master's report. Contents: Exhibits, testimony, orders, decrees and reports; agreement of reorganization. Note: Relative to the sale and reorganization of the M. & O. R. R. no place, 1879. 246 + 6 pp., 9 x 6, b. p.
- 220 — *et al. vs. W. B. Duncan and A. F. Elliot.* United States Circuit Court, Fifth Judicial Circuit, Southern District of Alabama: Proceedings and testimony before the Special Master, and minutes of the reference. Note: Relates to the reorganization of the company. Mobile, 1876-77. 6 v., 9 x 6, b. p.
- 220 — *vs. W. B. Duncan et al.* United States District Court, Southern District of Alabama: Circuit Justice Bradley's opinion, decree, etc., Woods, Circuit Judge, concurring. Note: Case relative to sale of the M. & O. R. R. and other properties of the company under the first mortgage; and the validity of said mortgage. Mobile, 1877. 22 pp., 9 x 6, b. p.
- 220 — Supreme Court of the United States, Nos. 879 and 1057, October Term, 1877; appeals from the Circuit Court of the United States for the Southern District of Alabama: Opinion of the Court. Morris Ketchum and others. Note: Relative to the validity of the mortgage of 1853, of the M. & O. R. R. Co. 17 pp., 9 x 6, b. p. no title-page.
- MOHAWK & HUDSON R. R.** State of New York, Supreme Court, Bill of exceptions and case. M. & H. R. R. Co. vs. John Brown. Note: Case relates to the destruction of property caused by overflow of water and ice from Mill Creek. Albany, 1844. 53 pp., pl., map, 12 x 9, b. p. Da-65, p. 335.
- 242 **MOUNT CARMEL & NEW ALBANY R. R.** Report on the memorials of the inhabitants of New Albany, St. Louis, and New Orleans, praying for a grant of land to aid in constructing the M. C. & N. A. R. R. U. S. (Senate) Committee on Roads and Canals. (25th Cong., 3rd Sess. Senate No. 49.) Wash., 1839. 12 pp., map, 9 x 6, pap.
- 260 **NEW HAMPSHIRE.** Public statutes of New Hampshire relating to railroads, in force on and after Apr. 1st, 1893. Concord, 1893. 40 pp., 9 x 6, pap.
- NEW HAVEN & HARTFORD R. R.** Charter of the N. H. & H. R. R. Co. Connecticut-General Assembly no place, no date. 8 pp., map, 8 x 5, b. p. Ac-139, p. 527.

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- 166 **NEW JERSEY R. R. & TRANSPORTATION CO.** Act to incorporate the N. J. R. R. & T. Co.; passed Mar. 7th, 1832; together with extracts from the supplement to an act entitled an "Act relative to the Delaware & Raritan Canal and the Camden & Amboy R. R. & Transportation Cos.; passed Mar. 2d, 1832." New Jersey-Legislature. Newark, 1832. 16 pp., 8 x 5, pap.
- and Morris & Essex R. R. Co. Agreement between the companies entered into the 13th day of October, 1853. Note: Agreement insuring to the M. & E. R. R., direct communication between Newark and Jersey City, over the tracks of the N. J. R. R. & T. Co. Newark, 1856. 16 pp., 8 x 5, b. p. Ag-280, p. 21.
- NEW ORLEANS & OHIO AIR-LINE R. R.** Report on the surveys, estimates and income of the N. O. & O. A.-L. R. R., to the Commissioners; with an appendix of charters. J. J. Williams, 1868. (See Ab-82.)
- 18 **NEW ORLEANS, MOBILE & TEXAS R. R.** Mortgage bonds of the company. N. Y., 1871. 32 pp., map, 9 x 6, pap.
- 5 **NEW YORK STATE.** Act to authorize the formation of railroad corporations, and to regulate the same. Albany, 1850. 38 pp., 9 x 6, b. p.
- 209 — Act to provide for the construction of a railroad from Oswego to Utica; passed May 13th, 1836. 8 pp., 9 x 6, pap. no title-page.
- General laws relative to railroads, 1834-48. (See Af-6, p. 13.)
- 165 — Report of the Minority of the Select Committee on the Pro Rata Freight Bill; together with a remonstrance from the Chamber of Commerce of New York; transmitted to the Assembly, Feb. 8th, 1860. Albany, 1860. 18 + 5 pp., 9 x 6, pap.
- 164 — Report of the Minority of the Select Committee on the petitions and bills for imposing tolls on certain railroads; transmitted to the Senate, Feb. 8th, 1860. Albany, 1860. 18 pp., 9 x 6, pap.
- Statutes of New York in relation to highways, bridges and ferries, with commentaries; also an appendix containing all the forms and precedents to be used under said statutes. W. S. Bishop, comp. ed. 2, enl. Rochester, 1847. 112 pp., 8 x 5, b. p. Ag-282, p. 623.
- 2 **NEW YORK & ERIE R. R.** and Williamsport & Elmira R. R. Articles of agreement. no place, 1853. 7 pp., 8 x 5, b. p. no title-page.
- 2 — Bill on the N. Y. & E. R. R.; truths which every citizen ought to read. N. Y., 1842. 24 pp., 4 x 7, b. p.
- Charter and laws relating to the N. Y. & E. R. R. Co. New York-Legislature. N. Y., 1846. 71 pp., 8 x 5, b. p. Ag-282, p. 53.
- Charter and laws relating to the N. Y. & E. R. R. Co., general railroad law, etc. New York-Legislature. N. Y., 1849. 128 pp., 8 x 5, b. p. Ag-282, p. 297.
- 216 — Charter of the N. Y. & E. R. R. Co. New York-Legislature. 16 pp., 8 x 5, b. p. no title-page.
- 2 — Copy of mortgage to secure the payment of the bonds of the N. Y. & E. R. R. Co., for four millions of dollars; executed Mar. 1st, 1849. N. Y., 1849. 4 pp., 8 x 5, b. p.
- 2 — Indenture of mortgage between the N. Y. & E. R. R. Co. and James Brown and John Davis, Mar. 1st, 1853. N. Y., 1853. 4 pp., 8 x 5, b. p.
- 2 — Opinions and decisions on the question whether the bill for conditionally releasing the N. Y. & E. R. R. Co. from the State Loan, is a majority bill. Dickson and others. Albany, 1845. 19 pp., 9 x 5, b. p.
- Report of the Attorney General of New York in answer to a resolution of the Assembly in relation to the N. Y. & E. R. R. Co. Albany, 1845. 16 pp., 8 x 5, b. p. Ah-23, p. 737.
- 222 **NEW YORK CENTRAL R. R.** Act authorizing the consolidation of certain railroad companies. N. Y.-Legislature. 1869. 4 pp., 9 x 6, b. p. no title-page.
- 222 — Act to authorize the consolidation of the Albany & Schenectady, Schenectady & Troy, Utica & Schenectady, Syracuse & Utica, Rochester & Syracuse, the Buffalo & Lockport, the Mohawk Valley, the Syracuse & Utica Direct, Buffalo & Rochester, Rochester, Lockport & Niagara Falls R. R. Cos. Note: The companies consolidated by this act formed the N. Y. C. R. R. Co. Albany, 1853. 1 p., 10 x 7, b. p. no title-page.
- 222 — and the Hudson River R. R. Agreement of consolidation, Sept. 15th, 1869. 13 pp., 9 x 5, b. p. no title-page.
- 5 — Agreement whereby several companies are consolidated into one corporation under the name of "The New York Central R. R. Co." in pursuance of an act of the Legislature of the State of New York, entitled "an act to authorize the consolidation of certain railroad companies," passed Apr. 2d, 1853. Albany, 1853. 36 pp., 9 x 6, b. p.
- 172 — and Saratoga & Hudson River R. R. Lease, Mar. 7th, 1867. Albany, 1867. 14 pp., 9 x 6, pap.

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- 245 **NEW YORK, LACKAWANNA & WESTERN RY. CO. vs. New York, Lake Erie and Western R. R. Co.** State of New York, in the Supreme Court, Third Judicial Department; the Chemung Crossing case: Return on appeal from report of Commissioners to fix crossing, etc., and from order confirming the same. Contents: v. 1, Evidence. v. 2, Exhibits. Elmira, 1882. 2 v., 1124 pp., pl., map., tab., 10 x 7, skiv.
- 251 — **vs. Buffalo, New York & Erie R. R. Co. and New York, Lake Erie & Western R. R. Co.** State of New York, in the Supreme Court, Fourth Judicial Department; the Erwin Crossing case: Return on appeal from report of Commissioner to fix crossing, etc., and from order confirming the same. Elmira, 1882. 989 pp., pl., 10 x 7, sh.
- 20 **NEW YORK WAREHOUSE & RAILWAY CO.** Charter of the N. Y. W. & Ry. Co.: Facts and figures, principally extracts from the Report of the N. Y. Cheap Transportation Association, showing the necessity for incorporating the N. Y. W. and Ry. Co., and also argument of E. M. Madden on passage of bill in the Senate, 1873. N. Y.-Legislature. no place, 1874. 19 + 33 pp., 10 x 7, pap.
- 7 **NORTH MISSOURI RAILROAD CONVENTION.** Memorial to the General Assembly of the State of Missouri. Jefferson City, Mo., 1852. 12 pp., 9 x 5, b. p.
- 17 **NORTH SIMCOE RY.** Act to amend the Act incorporating the N. S. Ry. Co. Ontario-Legislative Assembly. no place, 1874. 1 p., 9 x 7, pap.
- 269 — **Act to incorporate the North Simcoe Ry. Co.** Ontario-Legislative Assembly. Toronto, 1874. 13 pp., 10 x 7, pap.
- 183 **NORTHERN CENTRAL RY.** Appeal of the N. C. Ry. Co. from a final decree entered by the Common Pleas of Northumberland County on the 5th day of February, 1883, in a case in equity in said Court; paper-book of Appellant. Shamokin, Sunbury & Lewisburg R. R. Co. vs. Northern Central Ry. Co. Note: Case relates to the crossing at grade of the tracks of the N. C. Ry. by the Shamokin, Sunbury & Lewisburg R. R. no place, 1883. 198 pp., 9 x 6, pap.
- 263 — **Appeal of the N. C. Ry. Co. from a final decree entered by the Court of Common Pleas of Northumberland County in a case in equity; counter statement of Appellee.** Shamokin, Sunbury & Lewisburg R. R. Co. vs. Northern Central Ry. Co. Note: Case relates to the crossing at grade of the tracks of the N. C. Ry. by the Shamokin, Sunbury & Lewisburg R. R. no place, 1883. 73 pp., pl., 9 x 6, pap.
- 258 **NORTHERN CROSS R. R.** Memorial asking Congress to grant to the State of Illinois the alternate sections of land for six miles on each side of the N. C. R. R. for the sole purpose of completing said road. Illinois-General Assembly. (28th Cong., 1st Sess. House doc. 190.) Wash., 1844. 4 pp., 9 x 6, pap.
- 174 — **Resolutions to obtain a grant of land for the construction of the N. C. R. R.** Illinois-General Assembly. (28th Cong., 1st Sess. Senate No. 83.) Wash., 1844. 4 pp., 9 x 6, pap.
- 21 **NORTHERN PACIFIC R. R.** Charter and amendments of the N. P. R. R. Co., approved July 2d, 1864. U. S.-Congress. Burlington, Vt., 1870. 61 pp., map, 9 x 6, pap.
- 22 — **Summary of the arguments made before the respective Committees on Public Lands of the Senate and House of Representatives on the legal question of forfeiture by the N. P. R. R. Co.** George Gray. Wash., 1884. 28 pp., 9 x 6, pap.
- 49 **OHIO.** Laws relating to railroads, passed during the session ending Apr. 20th, 1874. Columbus, 1874. 10 pp., 9 x 6, pap.
- 186 — **Several acts conferring authority upon the Commissioner of Railroads and Telegraphs of Ohio, defining the duties of the office, etc., also the laws relating to railroads, passed at the session ending Apr. 12th, 1876.** Columbus, 1876. 16 pp., 10 x 7, pap.
- **Laws of Ohio and of Congress relative to railroads and telegraphs; and charters of the various companies; with notes of decisions, etc.** 1870. (See Ah-4, v. 1.)
- 232 **OHIO & MISSISSIPPI RY.** Act to incorporate the O. & M. Ry. Co., approved Feb. 5th, 1861; Act to incorporate the O. & M. R. R. Co., approved Feb. 12th, 1851, and Acts amendatory thereof; and by-laws of the O. & M. Ry. Co. adopted June 15th, 1863. Illinois-General Assembly. St. Louis, 1863. 37 pp., 9 x 6, pap.
- OHIO & PENNSYLVANIA R. R.** Charter of the O. & P. R. R. Co., embracing the several acts of the Legislatures of Ohio and Pennsylvania relating thereto. Pittsburg, 1849. 16 pp., 9 x 5, b. p. Ag-8, p. 29.
- 203 **PACIFIC R. R.** Charter of the P. R. R. Missouri-General Assembly. St. Louis, 1851. 18 pp., 9 x 6, pap.
- 217 — **Documents exhibiting the organization, condition and relations of the . . . railroad.** N. Y., 1853. 75 pp., map, 9 x 5, b. p.
- 52 — **Grant of lands by the United States to the State of Missouri for railroad purposes; and acts passed by the Legislature of Missouri affecting the South-western Branch of the P. R. R.; also constitutional amendment limiting the state debt to thirty millions of dollars.** U. S.-Congress. St. Louis, 1859. 50 pp., 9 x 6, pap.



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- 204 — Laws, etc., concerning the Railroad and the Southwest Branch of said road; opinion of the Supreme Court upon the validity of the law for the aid of railroads; notice of the lands belonging to the company; notice of state bonds and provisions made for payment of same, etc. N. Y., 1856. 76 pp., 9 x 6, pap.
- 7 — Memorial of the President and Directors to the General Assembly of the State of Missouri. Jefferson City, Mo., 1852. 24 pp., 9 x 5, b. p.
- 24 — Speech in the Senate of Missouri, urging a grant of land to the P. R. R. Co., Sept. 6th, 1852. Thomas Allen. 7 pp., 10 x 6, pap. no title-page.
- 233 **PANAMA R. R.** Memorial to Congress in reference to the construction of a railroad across the Isthmus of Panama. W. H. Aspinwall and others. (30th Cong., 2d Sess. Senate, misc. doc. 1.) Wash., 1848. 4 pp., 9 x 6, pap.
- 238 — Papers relating to the proposed railroad across the Isthmus of Panama; submitted to the Senate, Dec. 19th, 1848. T. H. Benton. (30th Cong., 2d Sess. Senate, misc. No. 6.) Wash., no date. 34 pp., 9 x 6, pap.
- 3 — Report by the Committee on Naval Affairs relative to the "memorial of William H. Aspinwall, John L. Stevens and Henry Chauncey, praying aid from the Government of the United States to construct a railroad across the Isthmus of Panama." (30th Cong., 2d Sess. House rep., No. 26.) no place, 1849. 46 pp., 9 x 6, b. p.
- 2 **PATERSON & HUDSON RIVER R. R.** Opinion on motion for injunction; Richard P. Thompson, Attorney General, David J. Anderson and John B. Ayer, complainants, and the P. & H. R. R. Co., the New York & Erie R. R. Co., and Thomas Addis Emmet, defendants. Benjamin Williamson. N. Y., 1852. 10 pp., 8 x 5, b. p.
- 43 **PENNSYLVANIA & COLUMBIA R. R.** Documents referring to the controversy between the Canal Commissioners of the State of Pennsylvania and the Harrisburg & Lancaster, and the Pennsylvania R. R. Cos.; with remarks upon the relative position of the state improvements and the Pennsylvania Railroad. H. Haupt, comp. Phil., 1852. 53 pp., 9 x 6, pap.
- 246 **PENNSYLVANIA R. R. CO.** and Erie & Pittsburgh R. R. Co. *vs.* Sharpville R. R. Co. Common Pleas Court of Mercer County, Pa., in equity; No. 2 of August Term, 1876. Note: Relative to the proposed crossing, near Sharpville, of the Erie & Pittsburgh R. R. by the Sharpville R. R. Cleveland, 1878. various pagings, map, 9 x 6, sh.
- 44 — and others. Agreement. Note: Relative to the indebtedness of the Allegheny Valley R. R. Co. Phil., 1874. 9 pp., 9 x 6, pap.
- 46 — By-laws of the Board of Directors; together with the Charter of the Company and its supplements. Phil., 1853. 65 pp., 9 x 6, pap.
- 47 — Charter and supplements of the P. R. R. Co., with the acts of the Assembly and Municipal ordinances affecting the company; together with the by-laws of the Board of Directors. Pennsylvania-General Assembly. Phil., 1859. 141 pp., 9 x 6, pap.
- 43 — Documents referring to the controversy between the Canal Commissioners of the State of Pennsylvania and the Harrisburg & Lancaster and the P. R. R. Cos.; with remarks upon the relative position of the state improvements and the P. R. R. Phil., 1852. 53 pp., 9 x 6, pap.
- 280 — In the Supreme Court of Pennsylvania in equity: Answer and exhibits of respondents. Robert Wightman *vs.* P. R. R. Co. Pittsburgh, 1854. 28 pp., 9 x 6, pap.
- 51 — and Cleveland & Pittsburgh R. R. Co. Lease, Oct. 25th, 1871; to take effect Dec. 1st, 1871. Cleveland, 1871. 31 pp., 9 x 6, pap.
- 182 — Pennsylvania system of fast freight lines as exemplified by the Union Line and the Empire Line operating between the Atlantic cities and the great West over the Pennsylvania and the Philadelphia & Erie Railroads and the Western Railways connecting therewith: A record of facts authenticated by the official investigations and reports of the Committee of the Legislature of Pennsylvania, the Committee of the Stockholders of the Pennsylvania Railroad Co., and the testimony and reports of the officers of connecting roads. Pennsylvania-General Assembly. Phil., 1867. 113 pp., 9 x 6, pap.
- 276 **PERU.** Colección de leyes, decretos, contratos y demas documentos relativos a los ferrocarriles del Peru. Lima, 1871. 3 v. in 1, 8 x 5,  $\frac{3}{4}$  mor.
- 281 **PHILADELPHIA & ERIE R. R. CO.** and another *vs.* The Catawissa R. R. Co. and others. Affidavits for defendants; in the Supreme Court of Pennsylvania, Eastern District, January Term, 1866. Phil., 1866. 14 pp., 6 tab., 9 x 6, pap.
- 282 — *et al. vs.* The Catawissa R. R. Co. *et al.* In Supreme Court, in equity; authorities, Acts of Assembly, etc., cited and referred to, by . . . Biddle and . . . Walker. Phil., no date. 42 pp., 9 x 6, pap.
- 9 — and the Pennsylvania R. R. Co. *vs.* Catawissa R. R. Co., Western Central R. R. Co. and Atlantic & Great Western Ry. Co. Proceedings and testimony of the suit between these companies, tried in the Supreme Court of Pa., 1866; and proceedings and testimony of the suit of Andrew Scott *vs.* the A. & G. W. Ry. Co., the C. R. R. Co. and the W. C. R. R. Co. no place, 1866. 476 pp., pl., 9 x 6, cl. no title-page.

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- 39 **PHILADELPHIA & READING R. R.** Argument before the Judiciary Committee of the Senate of Pennsylvania on behalf of the railroad and mining interests of Pennsylvania, Mar. 30th, 1871. F. B. Gowen. Phil., 1871. 38 pp., 9 x 6, pap.
- 283 —and Catawissa R. R. Co. against North & West Branch Ry. Co. In the Court of Common Pleas of Columbia County; Bill in equity. Bloomsburg, Pa., 1882. 188 pp., 9 x 6, b. p.
- 285 —vs. East Pennsylvania R. R. Co. and others. Examiner's report, affidavits and exhibits; in the Supreme Court of Pennsylvania. Note: Relative to the illegal issue of certain shares of stock. no place, 1868. 50 + 23 pp., 9 x 6, pap.
- 284 —Report of the trial of F. P. Hill, late a conductor on the P. & R. R. R., on a charge of embezzling the funds of that company in his capacity as conductor. Chic., 1864. 60 pp., 9 x 6, pap.
- 278 —vs. East Pennsylvania R. R. Co. *et al.* Supreme Court of Pennsylvania, Eastern District, Bill in equity. Note: Relative to the illegal issue of certain shares of stock. 4 pp., 9 x 6, pap. no title-page.
- 262 —vs. Commonwealth of Pennsylvania. Supreme Court of Pennsylvania, Middle District; tonnage tax case: Paper book of defendants in error. Phil., no date. 19 pp., 9 x 6, pap.
- PHILADELPHIA, EASTON & WATER GAP R. R.** Argument in favor of the constitutionality of the subscription by the City of Philadelphia to the capital stock of the Hempfield, and P., E. & W. G. R. R. Cos.: Delivered before the Supreme Court of Pennsylvania, July 24th, 1853; in the case of Sharpless and others vs. the Mayor, aldermen and citizens of Philadelphia. J. M. Read. Phil., 1853. 31 pp., 9 x 6, b. p. Ag-5, p. 817.
- In the Supreme Court of Pennsylvania, in equity: Answer of defendants; and appendix to argument of defendants; laws authorizing municipal subscriptions to public works. W. P. Sharpless and others vs. Mayor of the City of Philadelphia and others. 112 + 82 pp., 9 x 6, b. p. no title-page. Ad-96, p. 603.
- 50 **PITTSBURGH & CONNELLSVILLE R. R.** Laws relating to the P. & C. R. R. Co. Pennsylvania-General Assembly. Pittsburg, 1853. 17 pp., 9 x 6, pap.
- 23 **PITTSBURGH RAILROAD & COAL CO.** Charter and amendments of the P. R. R. & C. Co., by the Illinois General Assembly; together with a report on their coal lands and other property and a plan of organization. St. Louis, 1864. 19 pp., 8 x 5, pap.
- 5 **PLATTSBURG & MONTREAL R. R.** Counter statement, addressed to the Legislature and Public of Canada. Note: Reply to the statement of the Champlain & St. Lawrence R. R. Co. Relates to proposed legislation. Montreal, 1855. 29 pp., 8 x 5, b. p.
- 26 **PORT SULLIVAN, BELTON & NORTHWESTERN R. R.** Charter, organization and transfer to a general agent; together with the cost of construction, expense of operating, and net earnings per year. Galveston, Tex., 1869. 18 pp., 9 x 6, pap.
- 162 **PROVIDENCE & WORCESTER R. R. CO.** and Earl P. Mason vs. Charles F. Pike. Minutes of Charles Hart, Master in Chancery. no place, 1874. 3 pp., 9 x 6, pap. no title-page.
- 210 **PROVIDENCE, WARREN & BRISTOL R. R.** Charter and by-laws. Providence, 1853. 30 pp., 7 x 5, pap.
- 29 **RICHMOND & WASHINGTON R. R.** Proceedings of the Senate Committee on Roads and Internal Navigation as to Senate bill, No. 81, to incorporate the R. & W. R. R. Co.; with documents relating thereto in an appendix. Virginia-General Assembly. Richmond, Va., 1877. 235 + 27 pp., 9 x 6, pap.
- SACKET HARBOR & SARATOGA R. R.** Memorial to the Legislature of the State of New York, asking authority to improve the navigation of lakes and rivers in northern New York. no place, 1855. 18 pp., 9 x 6, b. p. Ag-5, p. 123.
- 27 **ST. LOUIS, ALTON & TERRE HAUTE R. R.** Charter of the St. L., A. & T. H. R. R. Co., Terre Haute & Alton R. R. Co., Belleville & Illinoistown R. R. Co., with the several amendments thereto, and the general railroad law of the State of Illinois. Illinois-General Assembly. St. Louis, 1863. 71 pp., 9 x 6, pap.
- 10 —vs. Indianapolis & St. Louis R. R. Co. and others. Record of Case No. 6257 in Chancery in the Circuit Court of the United States for the District of Indiana; including pleadings, opinions of Judges Gresham and Drummond, and depositions of witnesses. St. Louis, no date. 383 pp., 9 x 6, pap.
- SAN ANTONIO RY.** Act supplementary to an act to incorporate the S. A. Ry. Co., approved Sept. 5th, 1850. Texas-Legislature. (See Ag-7, p. 494.)
- 172 **SARATOGA & HUDSON RIVER R. R. CO.** and New York Central R. R. Co. Lease, Mar. 7th, 1867. Albany, 1867. 14 pp., 9 x 6, pap.
- 205 **SEABOARD & RALEIGH R. R.** Charter of the S. & R. R. R. Co. of North Carolina; with report of Engineer. North Carolina-General Assembly. N. Y., 1874. 24 pp., map, 9 x 6, pap.
- 279 **SELMA & GULF R. R.** First mortgage, 8 per cent. gold bonds; guaranteed, principal and interest, by the State of Alabama. N. Y., 1870. 23 pp., map, 9 x 6, pap.

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- 183 **SHAMOKIN, SUNBURY & LEWISBURG R. R. CO. vs. NORTHERN CENTRAL RY. CO.** Appeal of the N. C. Ry. Co. from a final decree entered by the Common Pleas of Northumberland County on the 5th day of February, 1883, in a case in equity in said Court; paper-book of Appellant. Note: Case relates to the crossing at grade of the tracks of the N. C. Ry. by the S., S. & L. R. R. no place, 1883. 138 pp., 9 x 6, pap.
- 263 — Appeal of the N. C. Ry. Co. from a final decree entered by the Court of Common Pleas of Northumberland County in a case in equity; counter statement of Appellee. Note: Case relates to the crossing at grade of the tracks of the N. C. Ry. by the S., S. & L. R. R. no place, 1883. 73 pp., pl., 9 x 6, pap.
- 270 — Common Pleas of Northumberland County: In equity; testimony taken Aug. 8th to 11th, 1882. Note: Case relative to the crossing of the railroads at Sunbury. Sunbury, Pa., 1882. 2 v., 9 x 6, 12 x 9, pap., bds.
- 19 **SMITH, H. B.** Bill to provide for the construction of a national railroad between the Cities of New York and Chicago; introduced in the House of Representatives, Jan. 15th, 1872. no place, 1872. 9 pp., 11 x 8, pap.
- 12 **SOMERVILLE & EASTON R. R.** Act to incorporate the S. & E. R. R. Co. New Jersey-Legislature. Elizabethtown, 1847. 14 pp., 8 x 5, b. p.
- 202 **SONORA RY. CO., LIMITED.** Massachusetts laws; Mexican concessions; first mortgage deed; by-laws. Note: Printed in both English and Spanish. no place, 1882. 143 pp., 9 x 6, pap.
- 167 **SOUTHERN VERMONT R. R.** Report relative to the conveyances of the S. V. R. R. Mass.-Attorney General. (Mass., Senate No. 157, 1862.) no place, 1862. 23 pp., 10 x 6, pap.
- SOUTHWESTERN R. R. BANK.** Charter of the Louisville, Cincinnati & Charleston R. R. Co. as passed by the Legislatures of Kentucky, Tennessee, North and South Carolina, with the amendments; also the charter of the Southwestern R. R. Bank, and the by-laws. Charleston, 1838. 32 pp., 9 x 5, b. p. Ab-362, p. 413.
- SUNBURY & ERIE R. R.** By-laws of the Board of Managers; together with the charter and its supplements. 1852. (See Ae-148.)
- 28 **SUSSEX & WARREN R. R.** Charter, supplements and by-laws of the S. & W. R. R. Co. New Jersey-Legislature. N. Y., 1861. 22 pp., 9 x 6, pap.
- TEHUANTEPEC RY.** Location, features and advantages of the company under the La Sere Grant. 1869. (See Ab-19.)
- 177 — Petition offering to Congress the advantages of a railroad across the Isthmus of Tehuantepec and praying that Congress, before its final action on the subject, will allow time for establishing the facts therein stated. P. A. Hargous. (30th Cong., 2d Sess. Senate, misc. No. 50.) Wash., 1849. 4 pp., 9 x 6, pap.
- 199 — Tehuantepec Railway, 1879; grant to Edward Learned of Pittsfield, Mass., for construction of railways and telegraph lines; with control of ports on both sides of the Isthmus. June 24th, 1879. Mexico-Congress. Note: Printed in both Spanish and English. N. Y., 1879. 49 pp., 9 x 6, pap.
- 197 **TEHUANTEPEC SHIP RY.** Concession to James B. Eads for the construction of a ship railway across the Isthmus of Tehuantepec, May 28th, 1881. Mexico-Congress. St. Louis, 1881. 15 pp., 9 x 6, pap.
- 198 — Concession to James B. Eads and his associates. Mexico-Congress. Wash., no date. 17 pp., 9 x 6, pap.
- TEXAS & LOUISIANA R. R.** Act to incorporate the T. & L. R. R. Co. Texas-Legislature. 1852. (See Ag-7, p. 470.)
- 185 **TEXAS & PACIFIC RY.** Argument of the President of the T. & P. Ry. Co., before the meeting of the Senate Railroad Committee, held Dec. 14th, 1874, on behalf of the bill presented to the Senate for the construction of the southern route to the Pacific. T. A. Scott. 9 pp., 9 x 6, pap. no title-page.
- TEXAS CENTRAL R. R.** Act to incorporate the T. C. R. R. Co. Texas-Legislature. 1852. (See Ag-7, p. 464.)
- TEXAS WESTERN R. R.** Act to establish the New Orleans, Texas & Pacific Ry. Co., for the extension of the New Orleans, Algiers & Opelousas Ry. through Texas. 1852. (See Ag-7, p. 552.)
- Act to incorporate the T. W. R. R. Co. Texas-Legislature. 1852. (See Ag-7, p. 517.)
- 230 — Charter of the T. W. R. R. Co.; and extracts from reports of A. B. Gray and Secretary of War, on the survey from eastern borders of Texas to California; nature of country and climate, mineral and agricultural resources, etc. Cin., 1855. 40 pp., map, 9 x 5, b. p.
- TREVORTON, MAHANOV & SUSQUEHANNA R. R.** Charter of the T., M. & S. R. R. Co. no place, 1850. 15 pp., 9 x 6, b. p. Ag-4, p. 451.
- 102 **TROY & GREENFIELD R. R. and HOOSAC TUNNEL CO.** Abstract of remarks on the bills concerning the T. & G. R. R. in the Senate of Massachusetts, Apr. 17th, 1862. W. D. Northend. Bost., 1862. 15 pp., 9 x 6, pap.



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- 68 —Act authorizing a loan of state credit to enable the T. & G. R. R. Co. to construct the Hoosac Tunnel. Mass.-General Court. no place, 1851. 7 pp., 9 x 6, pap.
- 81 —Act authorizing a loan of the state credit to enable the T. & G. R. R. Co. to construct the Hoosac Tunnel. Mass.-General Court. no place, 1859. 6 pp., 9 x 6, pap.
- 90 —Act authorizing the City of Boston to subscribe to the capital stock of the T. & G. R. R. Co. Mass.-General Court. Note: Substituted for Senate Bill, No. 48. no place, 1860. 2 pp., 9 x 6, pap.
- 148 —Act in further addition to an act providing for the more speedy completion of the T. & G. R. R. and Hoosac Tunnel. Mass.-General Court. no place, 1868. 4 pp., 9 x 6, pap.
- 115 —Address, January, 1865. Mass.-Governor. Note: That portion of the Governor's address to the Senate relating to the construction of the Hoosac Tunnel. pp. 33-38, 9 x 6, pap. no title-page.
- 83 —Amendment of Senate Bill, No. 25, entitled an act authorizing a loan of the state credit, to enable the T. & G. R. R. Co. to construct the Hoosac Tunnel. Mass.-(House) Committee on Finance. no place, 1859. 9 pp., 9 x 6, pap.
- 129 —Amendment to the bill in further addition to an act providing for the more speedy completion of the T. & G. R. R. and Hoosac Tunnel, to be inserted in place of the portion following the enacting clause. F. W. Bird. no place, 1867. 2 pp., 9 x 6, pap.
- 70 —Amendment to the bill "authorizing a loan of state credit to enable the T. & G. R. R. Co. to construct the Hoosac Tunnel." (House doc. 107.) Washburn. no place, 1854. 3 pp., 9 x 6, pap.
- 105 —Amendment to the bill concerning the T. & G. R. R. Co., to be inserted instead of the portion following the enacting clause. W. D. Swan. no place, 1862. 4 pp., 9 x 6, pap.
- 69 —Amendments to the bill "authorizing a loan of state credit to enable the T. & G. R. R. Co. to construct the Hoosac Tunnel." Russell. (House doc. No. 107.) no place, 1854. 2 pp., 9 x 6, pap.
- 73 —Answer to some of the objections made against the memorial of the T. & G. R. R. Co. Bost., 1857. 14 pp., 9 x 6, pap.
- 108 —Argument before the Joint Special Committee on the T. & G. R. R., Apr. 1st, 1863. D. S. Richardson. Bost., 1863. 14 pp., 9 x 6, pap.
- 157 —Bill entitled an act to authorize the Governor and Council to expend a sum not exceeding three hundred thousand dollars, in constructing archways in the Hoosac Tunnel and for other purposes. Mass.-Senate. Note: Substituted for House Bill, No. 305. no place, 1874. 2 pp., 9 x 6, pap.
- 84 —Bill entitled an Act in addition to an act to authorize a loan of the state credit to enable the T. & G. R. R. Co. to construct the Hoosac Tunnel: A substitute for the Senate bill in addition to an act authorizing a loan of the state credit, etc. Paige. no place, 1859. 7 pp., 9 x 6, pap.
- 85 —Bill entitled an Act in addition to an act authorizing a loan of the state credit to enable the T. & G. R. R. Co. to construct the Hoosac Tunnel; an amendment to the substitute offered by Mr. Paige, of Brimfield, to the Senate Bill with the same title. Stearns. no place, 1859. 7 pp., 9 x 6, pap.
- 125 —Bill entitled an Act in further addition to an act providing for the more speedy completion of the T. & G. R. R. and Hoosac Tunnel. Mass. House. Note: Bill as amended and ordered to a third reading. no place, 1866. 2 pp., 9 x 6, pap.
- 151 —Bill entitled an Act in further addition to an act providing for the more speedy completion of the T. & G. R. R. and Hoosac Tunnel. Mass.-House. Note: Bill as amended and ordered to a third reading. no place, 1868. 6 pp., 9 x 6, pap.
- 149 —Bill entitled an Act in further addition to an act providing for the more speedy completion of the T. & G. R. R. and Hoosac Tunnel. Train. Note: Proposed as a substitute for House Bill, No. 339. no place, 1868. 3 pp., 9 x 6, pap.
- 104 —Bill entitled an Act providing for the more speedy completion of the T. & G. R. R. and Hoosac Tunnel; introduced as a substitute for the original bill concerning the T. & G. R. R. Co. Williams. no place, 1862. 5 pp., 9 x 6, pap.
- 150 —Bill entitled an Act in further addition to an act providing for the more speedy completion of the T. & G. R. R. and Hoosac Tunnel, with various amendments. Mass.-House. no place, 1868. 6 pp., 9 x 6, pap.
- 82 —Bill entitled an Act to modify the one of 1854, granting aid to construct the Hoosac Tunnel. Mass.-Senate. Note: Proposed as a substitute for the bill reported by the committee. no place, 1859. 5 pp., 9 x 6, pap.
- 116 —Bill reported in answer to that part of the Governor's address which relates to the subject of the T. & G. R. R. and Hoosac Tunnel, suggesting additional legislation for the purpose of encouraging a vigorous prosecution of the work upon the road and tunnel. Mass.-Joint Special Committee on the T. & G. R. R. and Hoosac Tunnel. no place, 1865. 3 pp., 9 x 6, pap.

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- 103 — Bill reported in answer to the question of the bill relating to the T. & G. R. R., with the amendments pending, together with the petitions and remonstrances. Mass.-Senate. Note: Bill provides for the speedy completion of the T. & G. R. R. and Hoosac Tunnel. no place, 1862. 5 pp., 9 x 6, pap.
- 56 — By-laws, acts of incorporation, loan bill, etc. no place, no date. 27 pp., 9 x 5, pap.
- 137 — Claim of H. Haupt & Co.: Statement of case by claimants, explanatory of positions assumed by Commissioners and by the Tunnel Committee, to the Senators and Representatives of the Commonwealth of Massachusetts. Herman Haupt. 13 pp., 9 x 6, pap. no title-page.
- 96 — Closing argument on behalf of the T. & G. R. R. Co. before the Joint Special Committee of the Senate and House of Representatives of Massachusetts, at a public hearing, Mar. 6th, 1862, including his reply to Ex-Governor Boutwell, the Counsel of F. W. Bird, and other memorialists, in opposition. Herman Haupt. Bost., 1862. 38 pp., 9 x 6, pap.
- 93 — Communication to the Governor and Council of the State of Massachusetts, containing a review of the report of the Committee of Investigation on the Hoosac Tunnel Loan; certificates and affidavits; also, a report of the Chief Engineer of the T. & G. R. R. Co., on the characteristics of the road, and principles of location. H. Haupt. Greenfield, Mass., 1860. 24 pp., 9 x 6, pap.
- 127 — Communication to the President of the Senate of Massachusetts, on the subject of the T. & G. R. R. and Hoosac Tunnel, with a view to correct the serious errors in the report of the Chairman of the Joint Standing Committee of 1866. Herman Haupt. Boston., 1867. 20 pp., 9 x 6, pap.
- 130 — Communication to the Senators and Representatives of the Commonwealth of Massachusetts relative to the claims of H. Haupt & Co., in connection with the Hoosac Tunnel. Herman Haupt. Bost., 1867. 22 pp., 9 x 6, pap.
- 57 — Final settlement of the claim of H. Haupt & Co. against the State of Massachusetts: The liberality of "a generous and opulent commonwealth" exhibited. H. Haupt. Bost., 1869. 20 pp., 9 x 6, pap.
- 61 — Hoosac Tunnel: A brief report of the hearing of the T. & G. R. R. Co., petitioners for a loan of two millions. Mass.-Joint Special Committee on T. & G. R. R. Bost., 1854. 89 + 1 pp., 10 x 6, pap.
- 95 — Hoosac Tunnel and T. & G. R. R. D. L. Harris. Note: Report to the Committee on T. & G. R. R. no place, 1862. 24 pp., 9 x 6, pap.
- Hoosac Tunnel; the memorial of the Western R. R. Corporation, relating to the application of the T. & G. R. R. for a state loan of two millions of dollars. Bost., 1853. 25 pp., 9 x 6, b. p. Ad-4, p. 507.
- 147 — Letter to the Governor and Honorable Council of the Commonwealth of Massachusetts relative to the progress and condition of the work upon the T. & G. R. R. and Hoosac Tunnel and the acts and doings of the Commission during the past year. Charles Hudson. Bost., 1863. 16 pp., 9 x 6, pap.
- 62 — Memorial relating to the application of the T. & G. R. R. for a state loan of two millions of dollars. Western R. R. Corporation. Note: Made to the General Court of Massachusetts. Bost., 1853. 25 pp., 9 x 6, pap.
- 63 — Memorial relating to the application of the T. & G. R. R. for a state loan of \$2 000 000. Western Railroad Corporation. Note: Made to the General Court of Massachusetts. Bost., 1854. 8 pp., 9 x 6, pap.
- 86 — Memorial to the House of Representatives of Massachusetts. D. L. Harris. Note: Memorial begging for a more careful consideration of the subject of the proposed Hoosac Tunnel, before passing the bill authorizing a loan of two millions of dollars to the T. & G. R. R. Co. Bost., 1859. 6 pp., 9 x 6, pap.
- 133 — Memorial to the Senate and House of Representatives of Massachusetts. Note: Prays for repayment of money expended upon the Hoosac Tunnel. no place, 1868. 16 pp., 9 x 6, pap. no title-page.
- 63 — Memorial to the Senate and House of Representatives of Massachusetts, asking for a loan of two millions of dollars, to enable them to tunnel the Hoosac Mountain. no place, 1854. 2 pp., 9 x 6, pap.
- 106 — Memorial to the Senate and House of Representatives of the Commonwealth of Massachusetts, protesting against the report and acts of the Commissioners, in relation to the T. & G. R. R. and Hoosac Tunnel. Herman Haupt. no place, 1863. 81 pp., 9 x 6, pap.
- 118 — Memorial to the Senate and House of the Commonwealth of Massachusetts. Herman Haupt. Note: Memorial asking for a withdrawal of the decision of the Supreme Court of Massachusetts, holding him responsible for and liable to be called upon to repay to the state the amount of an alleged overissue of scrip to the T. & G. R. R. Co. no place, 1866. 11 pp., 9 x 6, pap.
- 77 — Message to the House of Representatives, May 26th, 1857. Mass.-Governor. Note: Message accompanying veto of a bill authorizing the loan of the state credit to enable the T. & G. R. R. Co. to construct the Hoosac Tunnel. Bost., 1862. 15 pp., 10 x 6, pap.

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- 155 — Minority report upon "an Act to provide for the consolidation of the Hoosac Tunnel Line of railroads from Boston to Troy," and the petition of the Boston & Lowell R. R. Co., for amendment of the charter of the Great Northern Railroad, and many petitions and remonstrances relative to the disposal of the T. & G. R. R. and Hoosac Tunnel. Mass.-Committee on Railways. no place, 1873. 21 pp., 9 x 6, pap.
- 74 — Petition to the Senate and House of Representatives of the Commonwealth of Massachusetts. Note: Memorial asking to be released from the obligation of finishing the Eastern Division of the railroad in one continuous line. no place, 1857. 5 pp., 9 x 6, pap.
- 152 — Petition to the Senate and House of Representatives relative to the contract for the completion of the Hoosac Tunnel. Carpenter, Odiorne and Gardner. Bost., 1869. 3 pp., 9 x 6, pap.
- 91 — Preamble and resolutions, and Memorial to the Legislature of Massachusetts setting forth the reasons why Senate Bill, No. 47, is essential to permit the continued prosecution of the work upon the T. & G. R. R. and Hoosac Tunnel. 4 pp., 9 x 5, pap. no title-page.
- 135 — Report, in form of a bill "to provide for funding the unfunded debt created in the construction of the T. & G. R. R. and the Hoosac Tunnel. Mass.-(House) Committee on Finance. no place, 1868. 5 pp., 9 x 6, pap.
- 117 — Report, in form of a bill, upon "the report of the T. & G. R. R. and Hoosac Tunnel, by the Joint Special Committee of 1864." Mass.-Joint Special Committee on T. & G. R. R. and Hoosac Tunnel. no place, 1865. 3 pp., 9 x 6, pap.
- 161 — Report, in part in the form of a bill, upon the petition of Edward Hamilton relative to appropriations for the T. & G. R. R. and Hoosac Tunnel, the business management and the duties of connecting roads. Mass.-Joint Standing Committee on the T. & G. R. R. and Hoosac Tunnel. no place, 1879. 3 pp., 9 x 6, pap.
- 75 — Report in reference to the petition of the T. & G. R. R. Co. for a modification of the Act of the Legislature, approved Apr. 5th, 1851, granting the credit of the state to aid said company in the construction of their road. Mass.-Joint Standing Committee on Railways and Canals. no place, 1857. 43 pp., 9 x 6, pap.
- 58 — Report, in the form of bill, relative to the petition of T. & G. R. R. Co., praying for aid of the state to construct a tunnel through Hoosac Mountain. Mass.-Joint Standing Committee on Railways and Canals. no place, 1851. 12 pp., 9 x 6, pap.
- 89 — Report, in the form of a bill, relative to the petitions of citizens of Boston asking for subscription to the capital stock of the T. & G. R. R. Co., and sundry petitions in aid thereof. Mass.-Joint Standing Committee on Railways and Canals. no place, 1860. 6 pp., 9 x 6, pap.
- 109 — Report, in the form of a bill, providing for the more speedy completion of the railroad and tunnel. Mass.-Joint Special Committee on the T. & G. R. R. and Hoosac Tunnel. no place, 1863. 6 pp., 9 x 6, pap.
- 120 — Report, in the form of a bill, upon so much of the Governor's address as relates to the T. & G. R. R., and also the report of the Commissioners on the T. & G. R. R. and Hoosac Tunnel. Mass.-Joint Standing Committee on the T. & G. R. R. and Hoosac Tunnel. no place, 1866. 3 pp., 9 x 6, pap.
- 114 — Report, in the form of a bill, upon so much of the Governor's address as relates to the T. & G. R. R., also his message transmitting the report of the Hoosac Tunnel Commissioners, etc., and suggesting additional legislation for the purpose of encouraging a vigorous prosecution of the work upon the road and tunnel. Mass.-Joint Special Committee on the T. & G. R. R. and Hoosac Tunnel. no place, 1865. 3 pp., 9 x 6, pap.
- 145 — Report, in the form of a bill, upon so much of the Governor's address as relates to the T. & G. R. R., and also the report of the Commissioner on the T. & G. R. R. and Hoosac Tunnel. Mass.-Joint Standing Committee on the T. & G. R. R. and Hoosac Tunnel. no place, 1868. 3 pp., 9 x 6, pap.
- 160 — Report, in the form of a bill, upon the order relative to legislation as to the manner of accounting to the State Treasurer and Auditor for receipts, and for expenses incurred in connection with the T. & G. R. R. and Hoosac Tunnel. Mass.-Joint Standing Committee on the T. & G. R. R. and Hoosac Tunnel. no place, 1879. 3 pp., 9 x 6, pap.
- 159 — Report, in the form of a new draft, upon the bill to permit the establishment of a union freight depot in Greenfield. Mass.-(House) Committee on Finance. no place, 1878. 3 pp., 9 x 6, pap.
- 78 — Report of a Committee of the Council, and other papers relating to the Hoosac Tunnel. Mass.-Executive Council. Bost., 1859. 13 pp., 9 x 6, pap.
- 87 — Report of a Special Committee of Five, appointed to inquire what payments, if any, have been made under the several acts granting aid to the T. & G. R. R. Co.; and whether, or not, all the requirements of said acts authorizing such payments have been fully complied with. Mass.-House. no place, 1860. 34 + 70 pp., 9 x 6, pap.



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- 94 — Report of the Committee on the memorial of the T. & G. R. R. Co., with the evidence before said Committee. Mass.-Executive Council. Bost., 1861. 64 pp., 9 x 6, pap.
- 136 — Report of the Committee to whom was referred the memorial of Herman Haupt & Co. asking leave to be discharged from further consideration of the subject, that the views of the different parts of the Committee be printed and that the whole matter be referred to the Committee on Finance. Mass.-Joint Standing Committee on the T. & G. R. R. and Hoosac Tunnel. no place, 1868. 9 pp., 9 x 6, pap.
- 144 — Report of the Committee to whom was referred the message of the Governor, relative to communications received by him concerning the Hoosac Tunnel. Mass.-House. no place, 1868. 2 pp., 9 x 6, pap.
- 76 — Report of the Joint Special Committee in answer to the order of Mr. Hyde, of Newton, directing the Committee to visit the Hoosac Tunnel and report, as soon as practical, any information they may obtain, which, in their opinion, will be useful in considering the measures now before the Legislature proposing to alter the terms of the Loan Act of 1854, in aid of the T. & G. R. R. Co. no place, 1857. 4 pp., 9 x 6, pap.
- 92 — Report of the Special Committee appointed under an order dated Jan. 30th, 1860, relating to payments made to the T. & G. R. R. Co., under the several acts granting state aid to said company, in the form of a new draft upon Senate Bill, No. 47. Mass.-House. no place, 1860. 10 pp., 9 x 6, pap.
- 80 — Report relative to the petition of the T. & G. R. R. Co., asking for a modification of the Act of the Legislature approved Apr. 5th, 1854, granting the credit of the state to aid said company in the construction of the Hoosac Tunnel. Mass.-Joint Standing Committee on Railways and Canals. no place, 1859. 11 pp., 9 x 6, pap.
- 113 — Report transmitting a copy of the opinion of the Supreme Judicial Court, rendered in the case of "The Commonwealth vs. J. V. C. Smith and others, Trustees." Mass.-Governor. Note: The point of the decision is that the mortgage of the T. & G. R. R. to said Smith and others is invalid, and constitutes no lien upon the roads. Bost., 1865. 7 pp., 9 x 6, pap.
- 112 — Report upon so much of the Governor's address as relates to the T. & G. R. R. and Hoosac Tunnel, and certain orders relating to the same, and also the memorial of Herman Haupt. Mass.-Joint Special Committee on the T. & G. R. R. and Hoosac Tunnel. no place, 1864. 3 pp., 9 x 6, pap.
- 97 — Report upon so much of the Governor's address as relates to the T. & G. R. R., the memorials of F. W. Bird and others, and the order of Jan. 31st, 1862. Mass.-Joint Special Committee on the T. & G. R. R. and Hoosac Tunnel. no place, 1862. 17 pp., 9 x 6, pap.
- 88 — Report upon the "Act concerning the T. & G. R. R. Co." in the form of a new draft of the bill. Mass.-Joint Standing Committee on Railways and Canals. no place, 1860. 4 pp., 9 x 6, pap.
- 146 — Report upon the Act in further addition to an act providing for the more speedy completion of the T. & G. R. R. and Hoosac Tunnel. Mass.-(House) Committee on Finance. no place, 1868. 2 pp., 9 x 6, pap.
- 128 — Report upon the Act in further addition to an act providing for the more speedy completion of the T. & G. R. R. and Hoosac Tunnel; and copy of the act. Mass.-(House) Committee on Finance. no place, 1867. 2 pp., 9 x 6, pap.
- 124 — Report upon the Bill "in further addition to an act providing for the more speedy completion of the T. & G. R. R. and Hoosac Tunnel." Mass.-(House) Committee on Finance. Note: Report takes the form of a new draft of the bill, amended. no place, 1866. 17 pp., 9 x 6, pap.
- 156 — Report upon the Bill "to incorporate the Boston & North-Western R. R. Co., to provide for the operation and management of the Hoosac Tunnel, and for other purposes," recommending the adoption of certain amendments. Mass.-(House) Committee on Finance. no place, 1873. 3 pp., 9 x 6, pap.
- 141 — Report upon the House resolve, appropriating the sum of fifty-three thousand dollars to Herman Haupt & Co. Mass.-(Senate) Committee on the Treasury. no place, 1868. 5 pp., 9 x 6, pap.
- 119 — Report upon the Memorial of Herman Haupt, in relation to the T. & G. R. R. and Hoosac Tunnel, and also the petitions of Henry Cartwright and others for compensation for expenses incurred upon said railroad and tunnel. Mass.-(Senate) Committee on T. & G. R. R. and Hoosac Tunnel. Bost., 1866. 2 pp., 9 x 6, pap.
- 72 — Report upon the petition of the T. & G. R. R. Corporation. Mass.-Joint Standing Committee on the T. & G. R. R. and Hoosac Tunnel. no place, 1856. 90 pp., 9 x 6, pap.
- 71 — Report upon the petitions of the T. & G. R. R. Co. and of sundry towns upon the line of said road, praying for an act to authorize said towns to take stock in said road. Mass.-Joint Standing Committee on Railways and Canals. no place, 1855. 3 pp., 9 x 6, pap.

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- 139 — Report upon the resolve in favor of Herman Haupt & Co., relative to the T. & G. R. R. and Hoosac Tunnel. Mass.-(House) Committee on Finance. no place, 1868. 12 pp., 9 x 6, pap.
- 132 — Report upon the resolve in favor of Herman Haupt, relative to the T. & G. R. R. and Hoosac Tunnel; and the resolve. Mass.-(House) Committee on Finance. no place, 1867. 2 pp., 9 x 6, pap.
- 140 — Resolve relative to the claim of Herman Haupt & Co., authorizing them to institute a suit in equity against the Commonwealth, in the Supreme Judicial Court. Mass.-Senate. Note: Proposed as a substitute for the resolve (H) in favor of H. Haupt & Co. (House, No. 369.) no place, 1868. 1 p., 9 x 6, pap.
- 67 — Speech in the Massachusetts House of Representatives, Mar. 29th, 1854, on the Bill granting state credit to the amount of two millions of dollars to the T. & G. R. R. Co., for the purpose of tunneling Hoosac Mountain. H. G. Parker. 10 pp., 9 x 6, pap. no title-page.
- 99 — Speech on the Bill concerning the T. & G. R. R. in the Senate of Massachusetts, Apr. 11th, 1862. Whiting Griswold. Bost., 1862. 28 pp., 9 x 6, pap.
- 100 — Speech on the Bill concerning the T. & G. R. R. in the Senate of Massachusetts, Apr. 16th, 1862. W. D. Swan. Bost., 1862. 19 pp., 9 x 6, pap.
- 59 — Speech on the Bill for loaning the credit of the state to the amount of two million dollars to the T. & G. R. R. Corporation for the purpose of tunneling the Hoosac Mountain; in the Senate of Massachusetts, Apr. 9th and 11th, 1851. Whiting Griswold. Bost., 1851. 20 pp., 9 x 6, pap.
- 60 — Speech on the Bill for loaning the credit of the State to the amount of two millions of dollars, to the T. & G. R. R. Corporation for the purpose of tunneling Hoosac Mountain; in the Legislature of Massachusetts, May 8th, 1851. Otis Clapp. no place, 1851. 12 pp., 9 x 5, pap.
- 101 — Speech on the T. & G. R. R. Bill; in the Massachusetts Senate, Apr. 16th, 1862. C. G. Loring. 15 pp., 9 x 6, pap. no title-page.
- 64 — Tunnel hearing in 1854; "a brief report of the evidence of the petitioners for a loan to the T. & G. R. R. Co., of two millions." Mass.-Joint Special Committee on T. & G. R. R. Bost., 1854. 41 + 1 pp., 9 x 6, pap.
- 42 **TUBULAR TRANSIT CO. OF STATEN ISLAND.** Concessions by the State of New York and concessions by the State of New Jersey to Drake De Kay for the organization of the Tubular Transit Company of Staten Island, for the construction of tunnels under the Kill von Kull and under the Staten Island Sound, and other papers relating thereto. N. Y.-Legislature. Note: Printed for private use only. N. Y., 1874. 22 pp., 9 x 6, pap.
- 31 **UNION PACIFIC R. R.** Act to aid in the construction of a railroad and telegraph line from the Missouri River to the Pacific Ocean. U. S.-Congress. Chic., 1862. 16 pp., 9 x 6, pap.
- 32 — Act to aid in the construction of a railroad and telegraph line from the Missouri River to the Pacific Ocean, approved July 1st, 1862; with amendments. U. S.-Congress. N. Y., 1865. 45 pp., 9 x 6, pap.
- 30 — Eastern Division. Argument in the matter of the U. P. Ry. Co., Eastern Division, before the Secretary of the Treasury. E. R. Meade. Wash., 1865. 20 pp., 9 x 6, pap.
- 34 — *vs. T. C. Durant.* In the Supreme Court of New York: Papers and affidavits relating to the suit. Note: Suit brought to prevent the carrying out of the contract between the U. P. R. R. Co. and the Credit Mobilier. N. Y., 1867. 9 + 1 pp., 9 x 6, pap. no title-page.
- 53 — *Kansas Pacific vs. Union Pacific:* Arguments on behalf of the Union Pacific Co. in the so-called *pro rata* controversy; with the report of Charles Devens, Attorney-General of the United States, Senator Chaffee's *Pro rata* Bill, etc. J. N. Rogers and others. Wash., 1878. 130 pp., map, 10 x 7, pap.
- 3 — Memorial, praying for a grant of land to enable him to construct a railroad from Lake Michigan to the Pacific Ocean, Jan. 17th, 1848. Asa Whitney. (30th Cong., 1st Sess. Senate, misc. doc. No. 28.) Wash., 1848. 7 pp., map, 9 x 6, b. p.
- 237 — Memorial to Congress praying a grant of public land to enable him to construct a railroad from Lake Michigan to the Pacific Ocean. Asa Whitney. (29th Cong., 1st Sess. Senate, doc. 161.) Wash., 1846. 10 pp., map, 9 x 6, pap.
- 3 — Memorial to Congress respecting a new route to the Pacific Ocean; with a plan for the transportation of despatches to Astoria in fifteen days; Feb. 15th, 1848. Robert Mills. (30th Cong., 1st Sess. Senate, misc., No. 51.) Wash., 1848. 7 pp., map, 9 x 6, b. p.
- 25 — Opinions in the Pacific Railroad cases—Thurman Act; with material portions of the acts. U. S.-Supreme Court. N. Y., 1879. 66 pp., 9 x 6, pap.
- 33 — Opinion on the validity and sufficiency in law of the first mortgage bonds of the U. P. R. R. Co. Daniel Lord. no place, 1866. 7 pp., 9 x 6, pap. no title-page.
- 235 — Petition to Congress praying a charter for the purpose of constructing a line of telegraph from St. Louis to San Francisco. P. P. F. Degrand and others. (31st Cong., 1st Sess. Senate, misc. doc., 28.) Wash., 1850. 35 pp., 9 x 6, pap.

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- Project for a railroad to the Pacific; with reports of Committees of Congress, resolutions of State Legislatures, etc., and other facts relating thereto. Asa Whitney. N. Y., 1849. 112 pp., maps, 8 x 5, b. p. Aj 36, p. 153.
- 248 —Report on a memorial of sundry citizens of Indiana, praying for the construction of a national railroad from the Mississippi to the Columbia River, and the Memorial of Asa Whitney, suggesting the means and submitting a proposition for the construction of such road from Lake Michigan to the Pacific Ocean. U. S.-(Senate) Committee on Public Lands. (29th Cong., 1st Sess. Senate, No. 466.) Wash. 1846. 51 pp., 9 x 6, pap.
- 254 —Resolutions in relation to the construction of a railroad to the Pacific. Tenn.-Legislature. Wash., 1850. 2 pp., 9 x 6, pap.
- 234 —Resolutions relative to Asa Whitney's plan of constructing a railroad from Lake Michigan to the Pacific Ocean. Penn.-General Assembly. (31st Cong., 1st Sess. Senate, misc. doc., 29.) Wash., 1850. 2 pp., 9 x 6, pap.
- 35 —Statement in reply to the testimony of John B. Alley, taken on the 7th day of January, 1873, before the Committee appointed by the House of Representatives to investigate charges of bribery against members of Congress. T. C. Durant. N. Y., no date. 52 pp., 9 x 6, pap.
- 2 **UNION R. R. and NEW YORK & ERIE R. R.** Contracts and agreements. no place, 1852. 43 + 1 pp., 8 x 5, b. p.
- 38 **UNITED STATES.** Argument before the Committee of Commerce of the House of Representatives of the United States, on the Reagan Bill for the regulation of interstate commerce, Washington, Jan. 14th, 15th, 16th, 1880. Albert Fink. N. Y., 1880. 80 pp., 9 x 6, pap.
- 189 —Argument before the Committee of Commerce of the Senate of the U. S. on the Reagan Bill for the regulation of interstate commerce. Albert Fink. N. Y., 1879. 23 pp., 9 x 6, pap.
- 55 —Interstate Commerce Act of Feb. 4th, 1887, with a summary of its provisions. N. Y., 1887. 15 + 1 pp., 9 x 6, pap.
- 191 —Railroad-mail pay: Remarks on Conference report, or Post-office Appropriation Bill in the House of Representatives, Friday, June 13th, 1884. R. G. Horr. (*Congressional Record*, 48th, Cong., 1st Sess., June 14th.) Wash., 1884. 4 pp., 12 x 9, pap.
- 6 **UTICA & SCHENECTADY R. R.** Charter of the U. & S. R. R. Co., with the subsequent laws relative thereto; and also the general acts of the Legislature on the subject of railroads. Albany, 1847. 58 pp., 9 x 6, b. p.
- 259 **VERMONT CENTRAL R. R.** V. C. R. R. accounting, 1875: Testimony; also arguments of Levi Underwood and Luke P. Poland, and report of the Special Masters. J. G. Smith and W. C. Smith. St. Albans, Vt., 1877. 183 + 175 pp., 8 x 6, pap.
- VICKSBURG & EL PASO R. R.** Act to incorporate the V. & El P. R. R. Co. Texas-Legislature. 1852. (See Ag-7, p. 531.)
- VICKSBURG, SHREVEPORT & TEXAS R. R.** Memorial of the President and Directors to the General Assembly of the State of Louisiana. 16 pp., 9 x 6, b. p. no title-page. Ag-7, p. 605.
- VIRGINIA & TENNESSEE R. R.** Speech on the V. & T. R. R. Bill; delivered by Joseph Segar in the House of Delegates, 23d and 24th Feb., 1849. Richmond, 1849. 48 pp., 9 x 6, b. p. Ad-1, p. 946.
- WARSAW & ROCKFORD R. R.** Charter of the W. & R. R. R. Co.; with reports of engineers and statistics of business on the Mississippi River above the lower rapids. St. Louis, 1853. 40 pp., 9 x 5, b. p. Ag-6, p. 571.
- 201 **WEST CHESTER & PHILADELPHIA R. R.** Acts of incorporation of the W. C. & P. R. R. Co., and the supplements thereto; with an appendix containing the "Act regulating railroad companies" approved Feb. 19th, 1849, and sections 2d and 3d of the supplement, approved Apr. 9th, 1856. Penn.-General Assembly. Phil., 1869. 54 pp., 9 x 6, pap.
- WESTERN RAILROAD CORPORATION.** Hoosac Tunnel; the Memorial of the W. R. R. Corporation relating to the application of the Troy & Greenfield R. R. for a state loan of two million of dollars. Bost., 1853. 25 pp., 9 x 6, b. p. Ad-4, p. 507.
- 187 **WHITEHAVEN RY.** Bill entitled "an Act to incorporate the Whitehaven Ry. Co., limited." Nova Scotia-Legislative Assembly. Note: This act passed the Legislature on 12th of Apr., 1877. no place, no date. unpagd, 13 x 8, pap. manuscript.
- 2 **WILLIAMSPORT & ELMIRA R. R. and NEW YORK & ERIE R. R.** Articles of agreement. no place, 1853. 7 pp., 8 x 5, b. p. no title-page.
- WILMINGTON & MANCHESTER R. R.** Joint acts to charter the W. & M. R. R. Co., passed by the States of South and North Carolina; also an Act to aid in the construction of the said railroad, passed by the Legislature of South Carolina. Wilmington, N. C., 1854. 30 pp., 9 x 6, b. p. Ah-26, p. 655.
- WILMINGTON & READING R. R.** By-laws of the Board of Directors; together with the charter of the company. 1867. (See Ae-78.)



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- 188 **WISCONSIN.** Compilation of the existing railroad laws of Wisconsin so far as they relate to rates of fare and freight. Railroad Commissioners, comp. Madison, 1876. 39 pp., 9 x 6, pap.
- 171 **WOODSTOCK & LAKE ERIE RY. & HARBOR CO.** Act to incorporate the W. & L. E. Ry. & H. Co.: Royal assent given in 1848. Canada-Parliament. (10 & 11 Victoria, cap. 117). Woodstock, C. W., 1852. 14 pp., 8 x 5, pap.
- WOODSTOCK & LAKE ERIE RY.** Letter to the Railway Committee in favor of the extensions claimed by the W. & L. E. Ry., Apr., 1855. R. G. Benedict. Note: Advocates granting a new charter to the W. & L. E. Ry. giving greater privileges to the company. Quebec, 1855. 10 pp., 9 x 6, b. p. Ah-26. p. 511

## RAILROADS—REPORTS, COMPANY.

## Ag

- AKRON BRANCH OF THE CLEVELAND & PITTSBURGH R. R.** Annual report of the President and Directors to the Stockholders; 2d; 1852. Hudson, Ohio, 1853. 1 v., 9 x 6, b. p. Ah-28, p. 581.
- Report of the Chief Engineer on the location, and estimates of cost; and the first annual report of the President and Directors submitted to the Stockholders of the company, Jan. 17th, 1852. Hudson, Ohio. 1852. 1 v., 9 x 6, b. p. Ah-24, p. 761.
- 150 **ALABAMA & TENNESSEE RIVER R. R.** Reports of the President, Directors and Chief Engineer at the annual meeting of the Stockholders; 2d; 1851. Montgomery, 1851. 1 v., 9 x 6, pap.
- ALBANY & WEST STOCKBRIDGE R. R.** Report in answer to a resolution of the Assembly of 3d Feb., 1842. no place, 1842. 1 v., 9 x 6, b. p. Ab-5, p. 585.
- Report of the Superintendent to the President and Directors, relative to the condition of the road. no place, 1836. 1 v., 9 x 6, b. p. no title-page. Cfb-9, p. 419.
- Reports of the Engineers, made to the Stockholders in 1840-41. 1842. (See Ab-41.)
- ALLEGHENY PORTAGE R. R.** Report of the Engineer and Superintendent of the road, to avoid the inclined planes, for the fiscal year ending Nov. 30th, 1854. no place, 1854. 1 v., 9 x 6, b. p. Ab-6, p. 541.
- 167 —Reports of the Superintendent and Engineer; 1853. Harrisburg, no date. 1 v., 9 x 6, pap.
- Report of the Superintendent of motive power and Supervisor of repairs, for the fiscal year ending Nov. 30th, 1852. Hollidaysburg, Pa., 1852. 1 v., 9 x 6, b. p. Ah-28, p. 325.
- Superintendent's report for the fiscal year ending Nov. 30th, 1854. no place, 1854. 1 v., 9 x 6, b. p. Ah-6, p. 525.
- 215 **ALLEGHENY VALLEY R. R.** Annual report of the President and Managers to the Stockholders; 13th. 19th-20th. 22d-27th, 29th-38th; 1865, '69-70, '72-77, '79-88. Pittsburgh, 1866-89. 18 v., 9 x 6, pap.
- 5 —Same; 1st; 1854. 1 v., 9 x 6, b. p.
- 6 —Same; 3d; 1856. 1 v., 9 x 6, b. p.
- 41 **ANDOVER & HAVERHILL R. R.** Report of the Committee of Stockholders appointed at the annual meeting, Apr., 1838; together with a statement of the President of the Corporation, in regard to the expense of constructing the road, etc., addressed to the Committee. Andover, 1838. 1 v., 9 x 6, pap.
- 248 **ANDROSCOGGIN & KENNEBEC R. R.** Report of the President and Directors to the Stockholders; 1849. Waterville, 1849. 1 v., 9 x 5, pap.
- 205 **ATCHISON, TOPEKA & SANTA FE R. R.** Annual report of the Board of Directors to the Stockholders; 5th-21st; 1875-93. Bost., 1876-93. 17 v., 9 x 6, 11 x 9, pap.
- 206 **ATCHISON, TOPEKA & SANTA FE RY.** Annual report; 1st-4th; 1896-99. N. Y., 1896-99. 4 v., 9 x 6, pap.
- 5 **ATLANTA & WEST POINT R. R.** Reports of the President and Superintendent to the Stockholders, in convention. Atlanta, 1854. 1 v., 2 tab., 9 x 6, b. p.
- 290 **ATLANTIC & GREAT WESTERN R. R.** Annual report of Receiver; 1st-5th. Cleveland, 1876-80. 5 v., 12 x 9, pap.
- 289 **ATCHISON, TOPEKA & SANTA FE RY.** Annual report to the Stockholders; 1872. N. Y., 1873. 1 v., 11 x 9, pap.
- 30 —Comparative statement of expenses in Engineering Department; June, 1875-76, Jan., Feb., Mar., Apr., 1876-77. no place, 1876-77. 5 sheets, 8 x 12, pap.
- 28 **ATLANTIC & GREAT WESTERN RY.** Reply to the Statements of James McHenry and others, in relation to the American management of the railway; together with the fourth annual report of the company, for the ten months ending Oct. 31st, 1866. Meadville, Pa., 1866. 1 v., 8 x 5, pap.
- 188 **ATLANTIC & GULF R. R.** Report of the President and Directors to the Stockholders; 21st-22d; 1875-76. Savannah, 1876-77. 2 v., 9 x 6, pap.

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- 29 ATLANTIC & NORTH CAROLINA R. R. Proceedings of the annual meeting of the Stockholders, together with the annual reports of the officers of the corporation; 20th. New Berne, N. C., 1874. 1 v., 9 x 5, pap.
- 275 BALTIMORE & OHIO R. R. Annual report of the President and Directors to the Stockholders; 1st-69th; 1827-95. Balt., 1827-95. 64 v. in 23, 5 x 8, 9 x 6, 12 x 9, pap.
- BALTIMORE & SUSQUEHANNA R. R. Reports; 3d-5th, 8th-9th, 12th-13th, 16th-27th; 1830-32, '35-36, '39-40, '43-54. Balt., 1830-54. 19 v., 9 x 5, b. p. A1-4, p. 289.
- 151 BELLEFONTAINE & INDIANA R. R. Annual report of the President and Directors; 1st; 1851. Sidney, Ohio, 1851. 1 v., 9 x 5, pap.
- Same; 3d; 1852. 1 v., 9 x 5, b. p. Ab-8, p. 379.
- 32 BELLEFONTAINE & INDIANA R. R. and INDIANAPOLIS, PITTSBURG & CLEVELAND R. R. Joint annual report of the Directors to the Stockholders; 6th, 9th; 1861, '64. Cleveland & Indianapolis, 1862, '65. 2 v., 9 x 6, pap.
- 31 BELLEFONTAINE RY. Annual report of the Directors to the Stockholders; 3d; 1867. Indianapolis, 1868. 1 v., 9 x 6, pap.
- BELOIT & MADISON R. R. Annual report; 1st-2d; 1853-54. Chic., 1854-55. 2 v., 8 x 5, b. p. Ab-9, p. 311.
- 235 BOSTON & ALBANY R. R. Annual report of the Directors to the Stockholders; 1st-24th; 1868-91. Note: 5th Report wanting. Springfield & Bost., 1869-91. 23 v., 9 x 6, pap.
- 250 BOSTON & LOWELL R. R. Report presented at the annual meeting; 1837. Bost., 1838. 1 v., 9 x 6, pap.
- 211 BOSTON & MAINE R. R. Annual report of the Directors to the Stockholders; 53d-54th, 64th, 66th; 1886-87, '97, '99. Bost., 1886-99. 4 v., 9 x 6, pap.
- Same; 15th-16th; 1849-50. 2 v., 8 x 5, pap. Ag-2, p. 589.
- 178 BOSTON & NEW YORK AIR LINE R. R. Annual report of the Board of Directors to the Stockholders; 1878-81. N. Y., 1878-81. 4 v., 7 x 5, pap.
- 33 BOSTON & PROVIDENCE R. R. Report of the Board of Directors; 1854, '61, '63. Bost., 1855-64. 3 v., 9 x 6, pap.
- 34 BOSTON & WORCESTER R. R. Annual report of the Directors; 28th-30th, 32d, 38th; 1857-58, '61, '67. Bost., 1858-68. 5 v., 9 x 6, pap.
- Same; 23d; 1852. 1 v., 9 x 6, b. p. Ab-3, p. 367.
- Same; 25th; 1855. 1 v., 9 x 6, b. p. Ah-26, p. 303.
- 283 —Annual report to the Legislature of Massachusetts; 13th; 1844. Bost., 1845. 1 v., 8 x 5, b. p.
- 47 BOSTON, CONCORD & MONTREAL R. R. Annual report of the Directors; 32d-33d; 1878-79. Bost., 1878-79. 2 v., 9 x 6, pap.
- Same; 9th; 1855. 1 v., 9 x 6, b. p. Ah-26, p. 283.
- 171 BOSTON, HARTFORD & ERIE R. R. Report to the Stockholders; 1864. Hartford, 1864. 1 v., 9 x 6, pap.
- 196 BROCKVILLE & OTTAWA RY. Annual report; 4th; 1867. Montreal, 1868. 1 v., 9 x 6, pap.
- 230 BURLINGTON, CEDAR RAPIDS & MINNESOTA RY. Receiver's report; 1875. N. Y., 1875. 1 v., map, 9 x 6, pap.
- 46 BURLINGTON, CEDAR RAPIDS & NORTHERN RY. Annual report; 1st-3d; 1877-79. Cedar Rapids, 1877-79. 3 v., 9 x 6, pap.
- 252 CAIRO & FULTON R. R. Proceedings of the Board of Directors, and the report of the Chief Engineer upon the preliminary surveys. Little Rock, 1854. 1 v., 9 x 5, pap.
- Proceedings of the Second annual meeting of the Stockholders, held in Little Rock, Ark., May 7th, 1855; with an appendix. Little Rock, 1855. 1 v., 9 x 6, b. p. Ah-26, p. 953.
- 270 CALEDONIAN RY. Report by the Directors to the half-yearly general meeting of the company; 76th-80th, 83d; 1883-85, '86. Glasgow, 1883-86. 6 v., 15 x 10, pap.
- 214 CALIFORNIA. Annual report of the — railroad company; 1876-77. Note: Blank form, issued by the Commissioners of Transportation, to be filled in by a R. R. Co. making its annual return. Sacramento, 1876-77. 2 v., 11 x 9, pap.
- CAMDEN & AMBOY R. R., DELAWARE & RARITAN CANAL and NEW JERSEY R. R. & TRANSPORTATION CO. Joint report to the Stockholders; 1st; 1867. 1867. (See Cfg-35.)
- 239 CANADA SOUTHERN RY. Annual report of the President and Directors to the Shareholders; 1892-93, '95. N. Y., 1893-96. 3 v., 9 x 6, pap.
- 271 CANADIAN PACIFIC RY. Annual report, and report of proceedings at the annual meeting of Shareholders; 3d, 5th-7th; 1883, '85-87. Montreal, 1884-88. 4 v., 9 x 6, pap.
- 272 —Report of proceedings at the adjourned annual and special meeting of Shareholders. Montreal, 1885. 1 v., map, tab., 9 x 6, pap.

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- 38 **CATAWISSA, WILLIAMSPORT & ERIE R. R.** Report of the President and Managers to the Stock and Bond holders; 1857. Phil., 1857. 1 v., 9 x 6, pap.  
 —Same; 1855. Phil., 1855. 1 v., 9 x 6, b. p. Ab-6, p. 733.  
 —Statement of the Company. no place, no date. 1 v., map, 9 x 6, b. p. Ab-1, p. 377.
- CENTRAL MILITARY TRACT R. R.** Report of the Directors to the Stockholders; 1855-56. Bost., 1855-56. 2 v., 8 x 5, b. p. Ab-9, p. 441.  
 —Same; 1856. Chic., 1856. 1 v., 8 x 5, b. p. Ae-1, p. 253.
- 44 **CENTRAL PACIFIC R. R.** Annual report of the Board of Directors to the Stockholders; 1872. Sacramento, 1873. 1 v., 9 x 6, pap.
- 208 **CENTRAL R. R. & BANKING CO. OF GEORGIA.** Report of the President and Directors to the Stockholders; 40th; 1875. Savannah, 1875. 1 v., 9 x 6, pap.
- 10 —Reports of the Presidents, Engineers-in-Chief, and Superintendents; 1st-19th; 1838-53; with report of survey by Alfred Cruger, and the charter of the company. Savannah, 1854. 1 v., 9 x 6, 1/2 ro.
- 213 **CENTRAL RAILROAD OF NEW JERSEY.** Annual report of the Board of Directors to the Stockholders; 1st-29th; 1847-76. Note: 7th report wanting. N. Y., 1852-76. 24 v., 9 x 6, pap.
- 40 **CHARLOTTE & SOUTH CAROLINA R. R.** Proceedings of the Stockholders at their annual meeting; 12th; 1860. Columbia, 1860. 1 v., 9 x 6, pap.
- 288 **CHEMIN DE FER DU GOTHARD.** Rapport de la direction et du conseil d'administration du Chemin de Fer du Gothard; 2d-3d; 1873-74. Zurich, 1874-75. 2 v., 11 x 8, pap.
- 287 —Geschäftsbericht der Direktion und des Verwaltungsrathes der Gotthardbahn; 1st-3d; 1872-74. Zurich, 1873-75. 3 v., 11 x 8, pap.
- 228 **CHEMIN DE FER GRAND CENTRALE BELGE.** Direction des voies et travaux: Compte rendu de l'exercice; 1870. Bruxelles, no date. 1 v., 11 x 9, pap.
- 39 **CHESAPEAKE & OHIO R. R.** Annual report of the President and Directors to the Stockholders; 4th; 1871. N. Y., 1872. 1 v., 9 x 6, pap.
- 21 **CHICAGO & ALTON R. R.** Annual report of the President and Directors; 7th, 9th-18th; 1869, '71-80. Chic., 1870-81. 12 v., 9 x 6, pap.
- CHICAGO & MISSISSIPPI R. R.** Statement by the directors of the C. & M. R. R. as to the present condition of the road, Mar. 15th, 1854. N. Y., 1854. 1 v., 9 x 5, b. p. Af-8, p. 851.
- 36 **CHICAGO & NORTHWESTERN RY.** Address of the President to the Stock and Bond-holders, at the annual meeting, June 7th, 1860; together with the balance sheet of Apr. 1st, the statement of income account for the ten months ending Mar. 31st, and the report of the Assistant Treasurer for the fiscal year. N. Y., 1860. 1 v., 9 x 6, pap.
- 35 **CHICAGO & NORTHWESTERN R. R.** Annual report; 3d, 6th-21st. 23rd, 27th, 31st-34th, 36th; 1862, '65-80, '82, '86, '90-93, '95. Chic. & N. Y., 1862-95. 23 v., 9 x 6, pap.
- 168 **CHICAGO & ROCK ISLAND R. R.** Annual report of the President and Directors to the Stockholders; July 1st, 1857-59. N. Y., 1857-59. 2 v., 9 x 6, pap.
- 27 **CHICAGO, BURLINGTON & QUINCY R. R.** Annual report of the Directors; 16th-37th; 1860-90. Cambridge, Mass, 1860-91. 27 v., 9 x 6, pap.  
 —Same; 1st-3rd; 1855-57. Chic., 1855-57. 3 v., 8 x 5, b. p. Ab-9, p. 845.
- 45 **CHICAGO, DANVILLE & VINCENNES R. R.** Report of the Receiver to the Judge of the Circuit Court of the Northern District of Illinois; 1875-77. Chic., 1875-77. 2 v., 9 x 6, pap.
- CHICAGO, IOWA & NEBRASKA R. R.** Statement accompanying their proposal to sell certain of their bonds; containing interesting statistics of the road and the country it penetrates; Jan., 1857. Chic., 1857. 1 v., map, 8 x 5, b. p. Ae-1, p. 281.
- 284 **CHICAGO, MILWAUKEE & ST. PAUL RY.** Annual report; 5th-31st; 1868-95. Note: 6th, 9th-12th, 16th, 28th reports wanting. Milwaukee & Chic., 1869-95. 21 v., 9 x 6, pap.
- 17 **CHICAGO, ROCK ISLAND & PACIFIC R. R.** Annual report; 1st-14th; 1867-80. N. Y. & Chic., 1867-80. 14 v., 9 x 6, pap.
- 16 **CHICAGO, ROCK ISLAND & PACIFIC RY.** Annual report of the Directors to the Stockholders; 1st-14th; 1881-94. Note: 8th-10th reports wanting. Chic., 1881-94. 11 v., 9 x 6, pap.
- CHICAGO, ST. CHARLES & MISSISSIPPI AIR LINE R. R.** Annual report; 1st; 1854. Chic., 1854. 1 v., 9 x 5, b. p. Af-8, p. 815.
- 238 **CHICAGO, ST. PAUL & KANSAS CITY RY.** Annual report; 4th-5th; 1890-91. no place, no date. 2 v., 9 x 6, pap.
- 200 **CHICAGO, ST. PAUL, MINNEAPOLIS & OMAHA RY.** Annual report; 4th-5th, 10th-12th, 15th; 1884-85, '90-92, '95. St. Paul, 1885-96. 6 v., 9 x 6, pap.



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- CINCINNATI & DAYTON R. R.** Report of the President and Directors; 1st. Cin., 1852. 1 v., maps, 8 x 5, b. p. no title-page. Ab-8, p. 359.
- 180 **CINCINNATI, HAMILTON & DAYTON R. R.** Annual report of the Directors to the Stockholders; 1st-41st; 1850-88. Note: Reports, 7th, 12th, 15th-17th, 35th-36th. wanting. Cin., 1850-88. 34 v., 9 x 6, pap.
- 23 **CINCINNATI, SANDUSKY & CLEVELAND R. R.** Report to the Stock and Bond holders; 1871-80. Sandusky, 1871-80. 10 v., 9 x 6, pap.
- 52 **CLEVELAND & MAHONING R. R.** Report; 1861-63. Cleveland, 1861-63. 3 v., 9 x 5, pap.
- 50 **CLEVELAND & PITTSBURGH R. R.** Annual report of the President and Directors to the Stockholders; 20th-24th; 1868-72. Cleveland, 1868-72. 5 v., 9 x 5, pap.
- Same; 6th; 1854. 1 v., 9 x 6, b. p. Ag-6, p. 227.
- 51 —Report of the Special Committee appointed by the Stockholders at the annual meeting; Jan. 7th, 1874. Cleveland, 1874. 17 pp., 9 x 6, pap.
- 25 **CLEVELAND, COLUMBUS & CINCINNATI R. R.** Annual report of the Directors to the Stockholders; 10th-12th, 16th-17th; 1860-62, '66-67. Cleveland, 1860-67. 5 v., 9 x 6, pap.
- Same; 2d-3d; 1853-54. 2 v., 9 x 5, b. p. Af-8, p. 155.
- Annual report of the Superintendent to the Directors, Jan. 8th, 1855. Cleveland, 1855. 1 v., 9 x 5, b. p. Af-8, p. 195.
- 22 **CLEVELAND, COLUMBUS, CINCINNATI & INDIANAPOLIS RY.** Annual report of the Board of Directors to the Stockholders; 1st-13th; 1869-80. Cleveland, 1869-81. 13 v., 9 x 6, pap.
- 58 **CLEVELAND, PAINESVILLE & ASHTABULA R. R.** Annual report of the Directors; 1865-67. Cleveland, 1866-68. 3 v., 9 x 6, pap.
- 6 **CLEVELAND, ZANESVILLE & CINCINNATI R. R.** Annual report of the President and Directors to the Stockholders; 3d; 1854. Hudson, Ohio, 1854. 1 v., 9 x 5, b. p.
- 13 **COLUMBUS & HOCKING VALLEY R. R.** Annual report; 3d-12th; 1871-80. Columbus, 1872-81. 10 v., 9 x 6, pap.
- 14 **COLUMBUS & TOLEDO R. R. OF THE STATE OF OHIO.** Annual report; 1st-4th; 1877-80. Columbus, 1878-81. 4 v., 9 x 6, pap.
- COLUMBUS & XENIA R. R.** Annual report of the Directors to the Stockholders; 3d; 1852. Columbus, 1853. 1 v., 9 x 6, b. p. Ab-8, p. 287.
- 15 **COLUMBUS, HOCKING VALLEY & TOLEDO RY.** Annual report; 1st-2d, 4th-7th; 1881-82, '84-87. Columbus, 1882-88. 6 v., 9 x 6, pap.
- 48 **CONCORD R. R.** Annual report of the Directors; 37th-38th; 1878-79. Concord, N. H., 1878-79. 2 v., 9 x 6, pap.
- 283 **CONNECTICUT RIVER R. R.** Annual report of the Directors to the Stockholders; 2d, 4th; 1847, '49. Northampton, 1847-49. 2 v., map, 8 x 5, b. p.
- 249 **COVINGTON & LEXINGTON R. R.** Annual reports of the President, Engineer and Treasurer; 1851. Covington, 1852. 1 v., 9 x 6, pap.
- COVINGTON & OHIO R. R.** Report of the Chief Engineer. Richmond, Va., 1855. 1 v., 9 x 5, b. p. Af-8, p. 411.
- 59 **CUMBERLAND & OHIO R. R.** Annual report; 4th-5th; 1874-75. Louisville, 1874-75. 2 v. in 1, 9 x 6, pap.
- 202 **DANVILLE, HAZLETON & WILKESBARRE R. R.** Annual report; 3d; 1870. Phil., 1870. 1 v., 9 x 6, pap.
- DAYTON & CINCINNATI R. R.** Address of the Board of Directors, delivered by the President to the Stockholders, at their meeting Apr. 24th, 1855. Cin., 1855. 1 v., 9 x 6, b. p. Af-8, p. 265.
- Annual report; 2nd; 1854. Cin., 1854. 1 v., map, 9 x 5, b. p. Ag-6, p. 191.
- DAYTON & MICHIGAN R. R.** First exhibit of the condition and prospects of their road. N. Y., 1852. 1 v., map, 9 x 6, b. p. Ah-28, p. 525.
- DELAWARE, LACKAWANNA & WESTERN R. R.** Annual report of the Board of Managers to the Stockholders; 1st-8th; 1853-60. N. Y., 1854-61. 8 v., 8 x 5, b. p. Af-13, p. 135.
- 184 **DELAWARE R. R.** Proceedings of the annual meeting of the Stockholders and the annual report of the President and Board of Directors; 9th; 1861. Dover, Del., 1861. 1 v., 9 x 6, pap.
- 54 **DENVER & RIO GRANDE RY.** Annual report of the Board of Directors to the Stockholders; 1st; 1873. Phil., 1873. 1 v., 9 x 6, pap.
- 53 —Statistical statement of the Receiver from July 12th, 1884, to Dec. 31st, 1885; with supplement covering period from Jan. 1st, 1884, to July 11th, 1884, prior to the receivership. Colorado Springs, 1886. 1 v., 9 x 6, pap.
- 55 **DENVER & RIO GRANDE R. R.** Annual report to the Stockholders; 5th-9th; 1891-95. Denver, 1891-95. 5 v., 9 x 6, pap.

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- 18 **DETROIT & MILWAUKEE R. R.** Report of the Directors; 1868-78. Detroit, 1869-78. 11 v., 9 x 6, pap.
- 19 **DETROIT, GRAND HAVEN & MILWAUKEE RY.** Report of the Directors; 1879. Detroit, 1880. 1 v., 6 x 9, pap.
- 169 **DUBLIN & WRIGHTSVILLE R. R.** Annual report of the President and Directors to the Stockholders; 1st; 1885. Savannah, 1886. 1 v., 9 x 6, pap.
- 231 **DUBUQUE & PACIFIC R. R.** Report; 1858. Dubuque, 1858. 1 v., 9 x 6, pap.
- 56 **EASTERN R. R.** Annual report of the Directors to the Stockholders; 4th-5th. 38th-39th, 41st, 43d-44th, 46th, 49th; 1848-49, '72-73, '75, '77-78, '80, '83. Bost., 1848-83. 9 v., 9 x 6, pap.
- 57 **ELIZABETHTOWN & PADUCAH R. R.** Annual report of the President and Directors; 5th; 1872. Louisville, 1872. 1 v., 9 x 6, pap.
- 95 **ERIE RY.** Annual report of the Directors to the Stockholders; 1st-5th, 10th-11th, 15th-16th; 1863-66, '71-72, '76-77. N. Y., 1863-77. 9 v., 9 x 6, pap.
- 96 —Annual report of the Receiver to the Board of Directors; 1876. N. Y., 1876. 1 v., 9 x 6, pap.
- 94 —Report of the President to the Stockholders and the Board of Directors; Sept., 1873. N. Y., 1873. 1 v., 11 tab., 13 x 8, pap. no title-page.
- 70 **ESTRADA DE FERRO DO SAO FRANCISCO.** Relatorio; 1897. Bahia, 1898. 1 v., 11 x 7, rus.
- EVANSVILLE & CRAWFORDSVILLE R. R.** Annual report of the President and Directors to the Stockholders; 1855. Terre-Haute, Ind., 1855. 1 v., 8 x 5, b. p. Af-8, p. 379.
- 5 **FALL RIVER R. R.** Annual report of the Directors to the Stockholders; 2nd, 4th, 8th; 1848, '50, '54. Fall River, Mass., 1848-54. 3 v., 9 x 6, b. p.
- 253 **FERROCARRIL ANDINO.** Memoria; 1883. Buenos Aires, 1884. 1 v., 10 x 6, pap.
- 42 **FERROCARRIL DE COPIAPO.** Informe relativo a los negocios durante el primer semestre de 1865. Valparaiso, 1865. 1 v., 9 x 6, pap.
- FITCHBURG R. R.** Annual report of the Directors to the Stockholders at their meeting; Jan. 29th, 1850. Charlestown, Mass., 1850. 1 v., 8 x 5, b. p. Ab-1, p. 339.
- Same; 13th-14th; 1854-55. 2 v., 9 x 6, b. p. Ah-26, p. 331.
- 12 **FLINT & PERE MARQUETTE R. R.** Annual reports made to the Stockholders; 1867-80. East Saginaw, Mich., 1868-81. 13 v., 9 x 6, pap.
- FORT WAYNE & CHICAGO R. R.** Report of the President and Chief Engineer; Dec. 6th, 1854. N. Y., 1854. 1 v., map, 9 x 5, b. p. Af-8, p. 307.
- 61 **FORT WAYNE, JACKSON & SAGINAW R. R.** Report of the Directors; 1879. Jackson, Mich., 1880. 1 v., 9 x 6, pap.
- 6 **FORT WAYNE, LACON & PLATTE VALLEY AIR-LINE R. R.** Report of the President and Directors to the Stockholders; 1st; 1853. 1 v., map, 8 x 5, b. p. no title-page.
- 60 **GALENA & CHICAGO UNION R. R.** Annual report of the Directors to the Stockholders; 1st, 3d, 6th, 8th, 13th-15th, 17th; 1848, '50, '53, '55, '59-61, '63. Chic., 1848-64. 8 v., 9 x 6, pap.
- Same; 1st-10th; 1848-57. 10 v., 9 x 6, b. p. Ab-9, p. 29.
- Report of William B. Ogden, President of the Company, together with reports of the Engineer, Secretary and Treasurer, read at the annual meeting of the Stockholders; Apr. 5th, 1848. Chic., 1848. 1 v., 9 x 6, b. p. Ad-1, p. 724.
- 262 **GLASGOW & SOUTHWESTERN RY.** Report by the Directors to the Shareholders at their ordinary half-yearly meeting; July, 1883-Jan., 1885. Glasgow, 1883-85. 4 v., 15 x 10, pap.
- 283 **GRAND JUNCTION RAILROAD & DEPOT CO.** Annual report of the Directors; 2d; 1849. Charlestown, 1849. 1 v., 8 x 5, b. p.
- 223 **GRAND RAPIDS & INDIANA R. R.** Annual report of the Board of Directors to the Stockholders; 1868-70, '73. Fort Wayne, 1868-73. 4 v., 9 x 6, pap.
- 195 **GRAND TRUNK RY. OF CANADA.** Report of the Directors to the Bond and Stock holders, and statement of the revenue and capital accounts for the half-year ended 31st Dec., 1866. Lond., 1867. 1 v., 8 x 5, pap.
- 256 **GREAT EASTERN RY.** Report of the Directors to the half-yearly general meeting of the Proprietors of the Company; 42d-45th, 48th; 1883-86. Stratford, 1883-86. 5 v., 10 x 6, pap.
- 255 **GREAT NORTH OF SCOTLAND RY.** Report by the Directors to the ordinary general meeting of the Proprietors; 61st-64th; 1883-84. Aberdeen, 1883-84. 4 v., 10 x 7 pap.
- 267 **GREAT NORTHERN RY.** Report of the Directors to the half-yearly ordinary general meeting of the Proprietors; 74th-77th, 80th; 1883-86. Lond., 1883-86. 5 v., 15 x 10, pap.

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- 258 **GREAT SOUTHERN & WESTERN RY.** Report of Directors and statement of accounts, to be submitted to the Proprietors at the half-yearly general meeting; 79th-82d, 85th; 1883-86. Dublin, 1883-86. 5 v., 9 x 6, pap.
- 265 **GREAT WESTERN RY.** Report of the Directors to be submitted to the Proprietors at the half-yearly general meeting; 95th-96th, 99th, 102d; 1882-83, '84, '86. Lond., 1882-86. 4 v., 15 x 10, pap.
- 191 **GREAT WESTERN RY. OF CANADA.** Proceedings at the annual general meeting of Shareholders; and report of the Directors; 1853. Hamilton, Ont., 1853. 1 v., 8 x 5, pap.
- 4 —Same; 1852. 1 v., 8 x 5, b. p.
- Report of the Directors; Sept. 29th, 1854. Hamilton, Ont., 1854. 1 v., tab., 7 x 5, b. p. Ah-26, p. 415.
- Report of the Directors to the Shareholders upon the report made by the Commission appointed to enquire into certain accidents upon the G. W. Ry.; Apr., 1855. Hamilton, Ont., 1855. 1 v., 9 x 6, b. p. Ah-26, p. 481.
- 115 —Semi-annual report of the Directors; 5th, 24th, 26th-28th, 31st, 33d-54th; Jl. 1857, Ja. '66, Ja. '67-Ja. '68, Jl. '69, Jl. '70-Ja. '81. Note: 39th, Jl. '73 wanting. Hamilton, Ont., 1857. London, Ont., 1866-81. 27 v., 8 x 5, pap.
- Same; 1st; 1855. 1 v., 9 x 6, b. p. Ah-26, p. 455.
- Special report of the Board of Directors to the English Shareholders. Hamilton, Ont., 1853. 1 v., 7 x 4, b. p. Ab-8, p. 59.
- 198 **HANNIBAL & ST. JOSEPH R. R.** Report to the Stockholders; 1859. Bost., 1859. 1 v., 9 x 6, pap.
- Reports of the President, Land and Fiscal Agents, and Chief Engineer. St. Louis, 1854. 1 v., map, tab., 9 x 5, b. p. Af-7, p. 445.
- HARTFORD & NEW HAVEN R. R.** Annual report of the Board of Directors to the Stockholders; 17th-18th; 1852-53. Hartford, 1852-53. 2 v., 8 x 5, b. p. Ab-1, p. 307.
- 4 —Same; 15th; 1850. 1 v., 9 x 5, b. p.
- 179 **HIWASSEE R. R.** Annual report of the President and Directors to the Stockholders; 3d; 1839. Athens, Tenn., 1839. 1 v., 8 x 5, pap.
- 62 **HOUSATONIC R. R.** Annual report of the Board of Directors to the Stockholders; 1860. Bridgeport, 1860. 1 v., 9 x 6, pap.
- 4 —Same; 1850. 1 v., 9 x 6, b. p.
- HUDSON RIVER R. R.** Annual report of the Directors to the Stockholders; 1st-3d, 5th; 1848-50, '52. N. Y., 1848-52. 4 v., tab., 8 x 5, b. p. Af-218, p. 293.
- Same; 2d; 1849. 1 v., 8 x 5, b. p. Ab-1, p. 153.
- 26 **ILLINOIS CENTRAL R. R.** Report and accounts; 1868, '71-80. N. Y., 1869-81. 11 v., 17 x 11, 13 x 9, pap. no title-page.
- 286 —Same; 1856-57. 2 v., 16 x 11, b. p.
- 66 **INDIANA CENTRAL RY.** Annual report of the President and Directors to the Stockholders; 7th; 1858. Richmond, Ind., 1859. 1 v., 9 x 6, pap.
- INDIANAPOLIS & CINCINNATI R. R.** Semi-annual report of the President and Directors to the Stockholders, for the half-year ending Dec. 31st, 1855. Cin., 1856. 1 v., 9 x 5, b. p. Af-8, p. 331.
- 218 **INDIANAPOLIS, CINCINNATI & LAFAYETTE R. R.** Report by the Receiver; 1878. Cin., 1878. 1 v., 9 x 6, pap.
- 232 —Report of the President and Directors; 1875. Cin., 1875. 1 v., 9 x 6, pap.
- 22 **INDIANAPOLIS, PITTSBURGH & CLEVELAND R. R. and BELLEFONTAINE & INDIANA R. R.** Joint annual report of the Directors to the Stockholders; 6th, 9th; 1861, '64. Indianapolis, 1862-65. 2 v., 9 x 6, pap.
- ITHACA & OWEGO R. R.** Report of the President and Directors to the Stockholders; 1853. Ithaca, N. Y., 1833. 1 v., 9 x 6, b. p. Cfg-2, p. 551.
- 65 **JACKSON, LANSING & SAGINAW R. R.** Report of the Directors to the Stockholders; together with the report of the Treasurer; 1869. Jackson, Tenn., 1870. 1 v., 8 x 5, pap.
- 43 **JOLIET & NORTHERN INDIANA R. R.** Report of the Directors to the Stockholders; 1854. N. Y., 1854. 1 v., 9 x 6, pap.
- 190 **KANSAS PACIFIC RY.** Annual report of the Board of Directors to the Stockholders; 2d-3d, 5th-6th; 1868-69, '71-72. St. Louis, 1869-73. 4 v., 9 x 6, pap.
- 247 **KENNEBEC & PORTLAND R. R.** Annual report of the President and Directors to the Stockholders, 1848-49, '52. Brunswick, 1848-52. 3 v., 9 x 6, pap.
- 174 **KENTUCKY CENTRAL R. R.** Annual report; 5th; 1880. Cin., 1880. 1 v., 9 x 6, pap.
- 76 **LACKAWANNA & BLOOMSBURG R. R.** Report of the Directors to the Stockholders; 1855. Phil., 1856. 1 v., 9 x 6, pap.
- Same; 1854. N. Y., 1856. 1 v., 9 x 6, b. p. Ma-10, p. 131.



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- LA CROSSE & MILWAUKEE R. R.** Annual report of the Board of Directors to the Stockholders; 1853. Milwaukee, 1853. 1 v., 8 x 5, b. p. Ab-8, p. 577.
- 197 —Same; 1856, '58. 2 v., 9 x 6, pap.
- LAKE ST. LOUIS & PROVINCE LINE R. R.** Report of the Directors and Engineer to the Stockholders. Montreal, 1851. 1 v., 8 x 5, b. p. Ah-24, p. 931.
- 77 **LAKE SHORE & MICHIGAN SOUTHERN RY.** Annual report of the Board of Directors to the Stockholders; 1st-30th; 1870-99. Cleveland, 1870-1900. 30 v., 9 x 6, pap.
- 75 **LAKE SHORE & TUSCARAWAS VALLEY RY.** Annual report of the President and Directors to the Stockholders; 2d; 1874. Cleveland, 1874. 1 v., 9 x 6, pap.
- 74 **LAKE SHORE RY.** Annual report of the Directors to the Stockholders; 1868. Cleveland, 1869. 1 v., 9 x 6, pap.
- 259 **LANCASHIRE & YORKSHIRE RY.** Report of the Directors and statement of accounts, half-yearly, to be submitted to the half-yearly general meeting of the Proprietors; 100th; 1886. no place, 1886. 1 v., 15 x 10, pap.
- 154 **LANCASTER, LEBANON & PINE GROVE R. R.** Annual report of the Board of Directors; 2d; 1854. Phil., 1854. 1 v., 9 x 6, pap.
- 64 **LEAVENWORTH, LAWRENCE & GALVESTON R. R.** Report of the Directors, presented to the Stockholders at their annual meeting; June, 1872. Chic., 1872. 1 v., 9 x 6, pap.
- 221 **LEHIGH VALLEY R. R.** Annual report of the Board of Directors to the Stockholders; 7th, 11th-12th, 14th-18th, 22d-23d, 26th; 1862, '66-67, '69-73, '77-78, '81. Phil., 1863-81. 11 v., 9 x 6, pap.
- 246 **LEXINGTON & DANVILLE R. R.** Annual report to the Stockholders; 1856. Cin., 1856. 1 v., 9 x 6, pap.
- LEXINGTON & FRANKFORT R. R.** Annual report; 19th-20th, 25th; 1867-68, '73. (See Ag-83.)
- 8 **LITTLE MIAMI R. R.** Annual report of the Directors; 8th-9th; 1850-51. Cin., 1850-51. 2 v., 9 x 5, b. p.
- 28 —Same; 10th; 1852. 1 v., 9 x 6, b. p.
- 6 —Same; 11th; 1853. 1 v., 9 x 6, b. p.
- 254 **LONDON & NORTHWESTERN RY.** Report of the Directors to be submitted to the Proprietors at the half-yearly general meeting; June, 1884, '86. Lond., 1884-86. 2 v., 15 x 10, pap.
- 187 **LONDON & PORT STANLEY RY.** Annual report of the President and Directors to the Stockholders; 1st; 1854. London, Ont., 1854. 1 v., 9 x 6, pap.
- Report of the Board of Directors; Apr., 1855. London, Ont., 1855. 1 v., map, 9 x 5, b. p. Ah-26, p. 505.
- 261 **LONDON & SOUTHWESTERN RY.** Report and statement of accounts, for the half-year ended June, 1883-85, June, '86. Lond., 1883-86. 6 v., 15 x 10, pap.
- 260 **LONDON, BRIGHTON & SOUTH COAST RY.** Report of the Directors to be submitted at the meeting of the Proprietors; 76th-78th, 81st; 1883-84, '86. Lond., 1883-86. 4 v., 15 x 10, pap.
- 264 **LONDON, CHATHAM & DOVER RY.** Report of the Directors, together with statements of accounts, to be submitted to the half-yearly ordinary general meeting of the company; June, 1883-Dec., '84. Pimlico, 1883-84. 4 v., 15 x 10, pap.
- 68 **LONG ISLAND R. R.** Annual report; 16th, 19th; 1858, '63. N. Y., 1859-63. 2 v., 9 x 6, pap.
- 4 —Same; 7th; 1849. 1 v., 9 x 5, b. p.
- Same; 11th; 1853. 1 v., 8 x 5, b. p. Ab-1, p. 225.
- 69 —Semi-annual report of the Board of Directors to its Stockholders; Dec., 1843. N. Y., 1843. 1 v., 8 x 5, pap.
- 63 **LOUISVILLE & FRANKFORT R. R.** Annual report of the President and Directors to the Stockholders; 17th-18th; 1865-66. Louisville, Ky., 1865-66. 2 v., 9 x 6, pap.
- 78 **LOUISVILLE & NASHVILLE R. R.** Annual report of the President and Directors; 22nd-42nd, 44th-45th; 1872-93, '95-96. Louisville, Ky., 1874-96. 23 v., 9 x 6, 11 x 9, pap.
- 71 **LOUISVILLE & NASHVILLE R. R. and SOUTH & NORTH ALABAMA R. R.** Cost of road repairs from June, 1877, to Mar., 1879. Louisville, Ky., 1877-79. 3 sheets, 27 x 9, pap. no title-page.
- LOUISVILLE, CINCINNATI & CHARLESTON R. R.** Annual report of the President and Directors to the Stockholders; 2d. Charleston, 1888. 1 v., tab., 9 x 5, b. p. Ab-362, p. 311.
- Proceedings of the Stockholders at their second meeting; with the first annual report of the President and Directors, the report of the Chief and Associate Engineers, and the by-laws. Charleston, 1837. 1 v., 9 x 5, b. p. Ab-362, p. 227.

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- 83 **LOUISVILLE, CINCINNATI & LEXINGTON R. R.** Annual report; 1st-2d, 7th; Being the annual report of the Louisville & Frankfort, and Lexington & Frankfort Railroads; 19th-20th, 25th; 1867-68, '73. Louisville, Ky., 1867-74. 3 v., 9 x 6, pap.
- 67 **LOUISVILLE, NEW ALBANY & CHICAGO R. R.** Report of the Managers to the Trustee for the Bondholders; together with a Report of the Superintendent, from Oct. 1st, 1858, to Sept. 30th, 1859. N. Y., 1860. 1 v., 9 x 6, pap.
- 87 **MACON & WESTERN R. R.** Annual report; 1st; 1846. N. Y., 1847. 1 v., 9 x 6, pap.
- MADISON & INDIANAPOLIS R. R.** Annual report of the President; 8th-10th; 1851-53. Indianapolis & Madison, 1851-53. 2 v., 8 x 5, b. p. Ae-1, p. 89.
- 92 **MAINE CENTRAL R. R.** Annual reports; 1872-73, '78-79, '81-84, '87, '92-95. Augusta & Portland, 1872-95. 13 v., 9 x 6, pap.
- 88 **MANCHESTER & LAWRENCE R. R.** Annual report of the Board of Directors to the Stockholders; 31st; 1878-79. Manchester, N. H., 1879. 1 v., 9 x 6, pap.
- 257 **MANCHESTER, SHEFFIELD & LINCOLNSHIRE RY.** Report of the Directors and statement of accounts, half-yearly, to the Meeting of Proprietors; June, 1886. Manchester, 1886. 1 v., 15 x 10, pap.
- MANITOWOC & MISSISSIPPI R. R.** Report to the Directors by the President. Milwaukee, 1854. 1 v., map, 9 x 5, b. p. Af-8, p. 659.
- MANSFIELD & SANDUSKY CITY R. R.** Annual report of the President and Directors to the Stockholders; 4th; 1851. N. Y., 1851. 1 v., tab., map, 9 x 5, b. p. Ag-8, p. 225.
- MARIETTA & CINCINNATI R. R.** Annual report; 1st-3d, 5th; 1851-53, '55. various places, 1851-55. 4 v., 9 x 5, b. p. Af-8, p. 45.
- 99 **MASSACHUSETTS.** Report of the — railroad Company; 1876. Note: Blank form, issued by the Board of Railroad Commissioners, to be filled in by a R. R. Co. making its annual return. Bost., no date. 1 v., 12 x 9, bds.
- MAYSVILLE & LEXINGTON R. R.** Annual report of the President and Directors to the Stockholders; 3d; 1853. N. Y., 1853. 1 v., 9 x 6, b. p. Ab-8, p. 447.
- 152 **MEMPHIS & CHARLESTON R. R.** Annual report of the Board of Directors to the Stockholders; 3d-5th, 7th, 9th; 1853-55, '57, '59. Huntsville & Memphis, 1853-59. 5 v., 9 x 5, pap.
- 153 — Annual report of the Chief Engineer; 1st; 1851. Huntsville, Ala., 1851. 1 v., 9 x 6, pap.
- 201 **MEXICAN CENTRAL RY.** Annual report of the Board of Directors to the Stockholders; 1st-11th; 1840-90. Bost., 1881-91. 11 v., 9 x 6, pap.
- 37 **MEXICAN NATIONAL R. R.** Annual report; 4th; 1890. Mexico, 1891. 1 v., 10 x 7, pap.
- 24 **MICHIGAN CENTRAL R. R.** Report of the Directors to the Stockholders; 1847-99. Note: Reports for 1850-54, '56, '58-62, '66, '68-76, '91-93 wanting. Detroit, 1847-1900. 29 v., 9 x 6, pap.
- 81 **MICHIGAN SOUTHERN & NORTHERN INDIANA R. R.** Annual report to the Stockholders; Mar. 1st, 1867-69. Chic., 1867-69. 3 v., 9 x 6, pap.  
— Same; 1855. 1 v., 9 x 6, b. p. Af-8, p. 537.
- MICHIGAN SOUTHERN R. R. and NORTHERN INDIANA R. R.** Report of the Boards of Directors; July 30th, 1853. N. Y., 1853. 1 v., map, tab., 9 x 6, b. p. Ab-8, p. 143.
- 234 **MIDLAND R. R. OF NEW JERSEY.** Annual report; 1st; 1880. N. Y., 1881. 1 v., 9 x 6, pap.
- 269 **MIDLAND RY.** Report of the Board of Directors to the general half-yearly meeting of the proprietors; 79th-82d, 85th; 1883-84, '86. Lond., 1883-86. 5 v., 15 x 10, pap.
- 85 **MILWAUKEE & CHICAGO R. R.** Annual report; 1862. Milwaukee, 1863. 1 v., 9 x 6, pap.
- 84 **MILWAUKEE & MISSISSIPPI R. R.** Annual report of the Directors to the Stockholders; together with reports of the Secretary, Treasurer and Superintendent; 11th; 1859. Milwaukee, 1860. 1 v., 9 x 6, pap.  
— Same; 5th; 1854. 1 v., 9 x 5, b. p. Af-7, p. 217.  
— Same; 6th; 1855. 1 v., 9 x 5, b. p. Af-8, p. 725.  
— Exhibit of the M. & M. R. R. Co.; June, 1852. N. Y., 1852. 1 v., 9 x 6, b. p. Ah-25, p. 687.
- 86 **MILWAUKEE & PRAIRIE DU CHIEN RY.** Annual report to the Stockholders; 1862. Milwaukee, 1863. 1 v., 9 x 6, pap.
- MILWAUKEE, WAUKESHA & MISSISSIPPI R. R.** Annual report of the Directors to the Stockholders; 1st; 1849. no place, 1849. 1 v., 8 x 5, b. p. no title-page. Ab-363, p. 583.
- 183 **MINE HILL & SCHUYLKILL HAVEN R. R.** Report of the Board of Managers to the Stockholders at their annual meeting; 25th, 30th, 32d-33d; 1854, '58, '61-62. Phil., 1854-62. 4 v., 9 x 6, pap.

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- 137 **MINNEAPOLIS & ST. LOUIS RY.** Annual report; 1879. Minneapolis, 1880. 1 v., 9 x 6, pap.
- 79 **MISSOURI PACIFIC RY. and TEXAS & PACIFIC RY.** Report to the Stockholders; 1884. N. Y., 1885. 1 v., 9 x 6, pap.
- MOBILE & OHIO R. R.** Annual report for the fiscal year ending the 30th day of June; 1878-79. N. Y., 1878-79. 2 v., 9 x 6, b. p. Af-220, p. 449.
- 80 —Proceedings of the annual meeting of the Stockholders; 11th; 1859. Mobile, 1859. 1 v., 9 x 6, pap.
- Same; 1st-2d; 1849-50. 2 v., 8 x 5, b. p. Ab-363, p. 299.
- MOHAWK & HUDSON R. R.** Report of the Superintendent to the President and Directors, for the year 1838. Albany, 1839. 1 v., 9 x 5, b. p. Ab-2, p. 655.
- Report relative to land occupied by the terminals of the railroad, and the amount of money received for transportation from the spring of 1834 to Sept. 14th of the same year. no place, 1835. 1 v., 9 x 6, b. p. no title-page. Cfh-10, p. 1089.
- 82 **MORRIS & ESSEX R. R.** Report of the Board of Directors to the Stockholders; together with the proceedings at the annual meeting; June, 1855-64, '68. Newark & Jersey City, 1855-68. 11 v., 9 x 6, pap.
- 101 **NASHVILLE & CHATTANOOGA R. R.** Annual report of the Directors and other officers to the Stockholders; 7th, 21st; 1854, '72. Nashville, 1855-72. 2 v., 9 x 6, pap.
- Same; 8th; 1855. 1 v., 9 x 6, b. p. Ah-26, p. 795.
- 105 **NASHVILLE, CHATTANOOGA & ST. LOUIS RY.** Annual report of the President and Directors to the Stockholders; 1873, '75, '85. Nashville, 1873-85. 3 v., 9 x 6, pap.
- 107 **NESQUEHONING VALLEY R. R.** Annual report of the President and Directors to the Stockholders; 1st; 1862. Phil., 1862. 1 v., 9 x 6, pap.
- 113 **NEW HAVEN, NEW LONDON & STONINGTON R. R.** Annual report of the Board of Directors to the Stockholders; 1859. New Haven, 1860. 1 v., 9 x 6, pap.
- 186 **NEW JERSEY R. R. & TRANSPORTATION CO.** Report of the Directors to the Stockholders; 1858, '64. Newark, 1858-64. 2 v., 9 x 6, pap.
- 280 —Report of the Directors to the Stockholders; with the proceedings of the annual meeting; 1853, '55-60. Newark, 1853-60. 7 v., 8 x 5, b. p.
- 112 **NEW ORLEANS, OPELOUSAS & GREAT WESTERN R. R.** Annual report of the President and Directors; 7th-8th; 1859-60. New Orleans, 1859-60. 2 v., 9 x 6, pap.
- 7 —Same; 1st; 1853. 1 v., 9 x 6, b. p.
- NEW YORK & ERIE R. R.** Report; 1835, '41, '49-51, '53, '55. N. Y., 1835-55. 7 v., 8 x 5, b. p. Af-2, p. 225.
- Same; 1836. 1 v., 10 x 6, b. p. Cfh-14, p. 191.
- 1 —Same; 1840. 1 v., 8 x 5, b. p.
- Report giving a list of the stockholders, etc. no place, 1839. 1 v., 9 x 6, b. p. Ab-5, p. 211.
- Report of the Superintendent of the Eastern Division of the N. Y. & E. R. R. to the assignees. H. C. Seymour. N. Y., 1842. 1 v., tab., 7 x 4, b. p. Ah-23, p. 723.
- 93 —Statement of the operations of the railroad under the receivership from Aug. 16th, 1859, to Dec. 31st, 1861. N. Y., 1862. 1 v., 9 x 6, pap.
- Summary of the report made at the second annual meeting of the Stockholders of the N. Y. & E. R. R.; Sept. 29th, 1836. *New York American*. 1 v., 10 x 8, b. p. no title-page. Af-216, p. 127.
- NEW YORK & HARLEM R. R.** Report of the Board of Directors to the Stockholders; 5th Oct., 1849. N. Y., 1849. 1 v., tab., 8 x 5, b. p. Ah-23, p. 855.
- 5 —Report of the Directors made to the Stockholders in pursuance of a resolution, passed at their meeting of the 15th of Aug., 1854; for the year ending 30th Sept., 1854. N. Y., 1855. 1 v., 9 x 6, b. p.
- 237 **NEW YORK & NEW ENGLAND R. R.** Annual report to the Stockholders; made at the annual meeting; 12th; 1887. Bost., no date. 1 v., 9 x 6, pap.
- 109 **NEW YORK & NEW HAVEN R. R.** Report of the Board of Directors to the Stockholders; 1858, '71-72. N. Y., 1858-72. 3 v., 9 x 6, pap.
- 283 —Same; 1849. 1 v., 8 x 5, b. p.
- 4 —Same; 1851-52. 2 v., 9 x 6, b. p.
- 286 —Same; 1855. 1 v., 11 x 9, b. p.
- 11 **NEW YORK CENTRAL & HUDSON RIVER R. R.** Annual report of the Board of Directors to the Stockholders; 1st-30th; 1870-99. Albany & N. Y., 1871-99. 30 v., 9 x 6, 12 x 9, pap.



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- NEW YORK CENTRAL R. R.** Annual report; 1853-69. Albany, 1853-70. 17 v., 10 x 8, b. p. Af-222, p. 37.
- Report of a Committee appointed Jan. 4th, 1855, by the Directors, at the request of the Stockholders, authorizing certain examinations to be made of the "acts and doings of the Directors and Treasurer" subsequent to the consolidation. Bost., 1855. 1 v., 9 x 6, b. p. Af-5, p. 1079.
- Report of the Committee appointed by the Board of Directors to examine the accounts of the Treasurer. Albany, 1855. 1 v., 9 x 5, b. p. Af-5, p. 1051.
- Report of the Committee appointed by the Stockholders; made to the Stockholders; 1858-61, '63. Albany, 1858-63. 5 v., 10 x 6, b. p. Af-222, p. 605.
- 175 **NEW YORK, LAKE ERIE & WESTERN R. R.** Report of the Board of Directors to the Share and Bondholders; 1879-80. N. Y., 1879-80. 2 v., 9 x 6, pap.
- 110 **NEW YORK, NEW HAVEN & HARTFORD R. R.** Annual Report of the Board of Directors to the Stockholders; 10th-14th; 1881-85. New Haven & N. Y., 1882-86. 5 v., 9 x 6, pap.
- 291 **NEW YORK, PENNSYLVANIA & OHIO R. R.** Annual report of the Board of Directors to the Bondholders and Shareholders; 1st; 1880. Cleveland, 1881. 1 v., 12 x 9, pap.
- 4 **NEW YORK, PROVIDENCE & BOSTON R. R.** Report of the Directors to the Stockholders; 1851. 1 v., 9 x 5, b. p. no title-page.
- 111 **NEW YORK, WEST SHORE & CHICAGO R. R.** Report of the Engineer-in-Chief, May, 1871. N. Y., 1871. 1 v., 10 x 7, pap.
- NIAGARA FALLS & LAKE ONTARIO R. R.** Statement of the Company. N. Y., 1853. 1 v., map, 8 x 5, b. p. Ab-1, p. 141.
- 5 **NORFOLK & PETERSBURG R. R.** Annual report of the President and Directors to the Stockholders; 1st; 1854. Norfolk, Va., 1854. 1 v., 9 x 6, b. p.
- 236 **NORFOLK & WESTERN R. R.** Annual report of the Board of Directors to the Stockholders; 9th-12th, 14th; 1889-92, '94. Phil., 1890-95. 5 v., 9 x 6, mor., pap.
- 268 **NORTH BRITISH RY.** Report by the Directors to the half-yearly general meeting of the Shareholders; 79th-82d; 1883-85. Edin., 1883-85. 4 v., 15 x 10, pap.
- 100 **NORTH MISSOURI R. R.** Annual report of the Board of Directors to the Stockholders; 11th; 1864. St. Louis, 1864. 1 v., 9 x 6, pap.
- 192 **NORTH PENNSYLVANIA R. R.** Annual report of the Board of Directors, with the report of the Treasurer and the Engineer and Superintendent; 16th, 25th. Phil., 1869-78. 2 v., 9 x 6, pap.
- 263 **NORTHEASTERN RY.** Report of the Directors to be submitted to the Proprietors at the half-yearly general meeting; 59th-62d; 1883-85. Newcastle-on-Tyne, 1883-85. 4 v., 15 x 10, pap.
- NORTHERN CENTRAL RY.** Address of the President and Directors to the Stockholders, May 17th, 1855. Balt., 1855. 1 v., 9 x 5, b. p. Af-4, p. 241.
- 102 —Annual report of the President and Directors to the Stockholders; 8th, 16th; 1862, '70. Balt., 1863-71. 2 v., 9 x 6, pap.
- 103 **NORTHERN ILLINOIS R. R.** Report; 1st; 1862. Racine, 1862. 1 v., 9 x 5, pap.
- NORTHERN INDIANA R. R. and MICHIGAN SOUTHERN R. R.** Report of the Boards of Directors, July 30th, 1853. N. Y., 1853. 1 v., map, tab., 9 x 6, b. p. Ab-8, p. 143.
- 108 **NORTHERN PACIFIC R. R.** Report of the Comptroller, for the fiscal year ending June 30th, 1895. N. Y., 1895. 1 v., 9 x 6, pap.
- 189 —Report of the Board of Directors to the Stockholders at their annual meeting; 1876-93. N. Y., 1876-93. 18 v., 9 x 6, pap.
- 106 **NORTHERN R. R.** Annual report of the Directors; 33d-34th; 1878-79. Concord, N. H., 1878-79. 2 v., 9 x 6, pap.
- Same; 7th; 1852. 1 v., 8 x 5, b. p. Ab-1, p. 327.
- Report of the Directors submitted to the Stockholders, July 25th, 1855. Bost., 1855. 1 v., 9 x 6, b. p. Af-5, p. 401.
- 195 **NORTHERN RY. OF CANADA.** Report submitted by the Canadian Board of Directors, at the annual meeting of the Proprietors; 1872. Toronto, 1873. 1 v., 9 x 6, pap.
- 157 **NORTHWESTERN R. R.** Annual report of the President and Directors, with the report of the Chief Engineer; 2d; 1854. Phil., 1855. 1 v., 9 x 6, pap.
- 104 **NORTHWESTERN VIRGINIA R. R.** Annual report of the President and Directors to the Stockholders; 6th; 1857. Balt., 1857. 1 v., 9 x 6, pap.
- 273 **OAHU RY. & LAND CO.** Annual report and statement of accounts for the year ending Dec. 31st, 1890. Honolulu, 1891. 1 v., 9 x 6, pap.
- OGDENSBURG, CLAYTON & ROME R. R.** Report of the Chief Engineer, and of the President and Directors; and letter of John B. Jervis, Apr. 20th, 1851. Rome, N. Y., 1854. 1 v., map, 9 x 5, b. p. Af-5, p. 349.

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- 122 **OHIO & MISSISSIPPI RY.** Report of the President and Directors to their Stockholders, for the fiscal year ending June 30th, 1873, '85. St. Louis & Cin., 1873-85. 2 v., 9 x 6, pap.
- 121 **OHIO & MISSISSIPPI R. R., EASTERN DIVISION.** Annual reports of the President and Directors to the Stockholders; 1857-58, 1858-59. Cin., 1859. 1 v., 9 x 6, pap.
- 156 **OHIO & PENNSYLVANIA R. R.** Annual report of the President and Directors to the Stockholders; 6th; 1853. Pittsburg, 1854. 1 v., 9 x 6, pap.  
—Same; 5th; 1852. 1 v., 9 x 6, b. p. Ah-28, p. 441.  
—Same; 7th; 1854. 1 v., 9 x 5, b. p. Af-8, p. 279.
- 8 —Report of the Chief Engineer to the President and Directors; 1st-2d; 1849-50. Phil., 1849-50. 2 v., 9 x 5, b. p.
- 220 **OIL CREEK & ALLEGHENY RIVER RY.** Annual report; 7th; 1874. Titusville, 1875. 1 v., 8 x 6, pap.
- OLD COLONY & FALL RIVER R. R.** Annual report of the Directors to the Stockholders; 2d; 1855. Bost., 1856. 1 v., 9 x 5, b. p. Ah-26, p. 193.
- 5 **OLD COLONY R. R.** Annual report of the Directors of the Corporation to the Stockholders; 10th; 1854. Bost., 1854. 1 v., 9 x 6, b. p.
- 216 —Annual report of the Directors to the Stockholders; 23d; 1886. Bost., 1886. 1 v., 9 x 6, pap.
- ONTARIO, SIMCOE & HURON R. R.** Report submitted by the Board of Directors to the annual meeting of the Proprietors; July, 1854-55. Toronto, 1854-55. 2 v., 8 x 5, b. p. Ah-26, p. 519.
- 243 **ORANGE & ALEXANDRIA R. R.** Proceedings of the annual meeting of the Stockholders; 6th, 8th-9th; 1855, '57-58. Alexandria, Va., 1855-58. 3 v., 9 x 5, pap.  
—Proceedings of the called meeting of the Stockholders., Dec., 1849. Alexandria, Va., 1850. 1 v., 8 x 5, b. p. Ad-1, p. 960.
- 173 **OREGON RY. & NAVIGATION CO.** Annual report of the President to the Stockholders; 1st; 1880. N. Y., 1880. 1 v., 9 x 6, pap.
- 120 **PACIFIC R. R.** Annual report of the Board of Directors to the Stockholders; 5th, 19th; 1855, '69. St. Louis, 1855-69. 2 v., 9 x 6, pap.  
—Same; 1st-3d, 5th-6th, 8th; 1851-53, '55-56, '58. 6 v., 9 x 5, b. p. Af-217, p. 19.  
—Annual report to the Secretary of the State of Missouri; 3d; 1854. St. Louis, 1854. 1 v., 8 x 5, b. p. Af-7, p. 621.  
—Report of the Committee appointed by the Directors to investigate the causes of the accident at Gasconade Bridge. St. Louis, 1855. 16 pp., 9 x 6, b. p. Ah-26, p. 1157.
- 225 —Seventh annual report of the Board of Directors of the P. R. R. to the Stockholders. Note: Satire on the management of the Pacific R. R., written in the form of an annual report. no place, 1857. 1 v., 9 x 6, pap.
- 276 **PENNSYLVANIA R. R.** Annual report of the Board of Directors to the Stockholders; presented at their annual meeting; 1st-51st; 1847-97. Phil., 1847-98. 51 v. in 14, 8 x 5, 9 x 6, 12 x 10,  $\frac{3}{4}$  mor., pap.
- 20 —Annual report of the Chief Engineer; 1st; 1848. Phil., 1848. 1 v., 9 x 6, pap.
- 292 —Length of tracks of the railroads owned, leased, operated, and controlled by the P. R. R. Co. 1880. 1 v., 11 x 9, pap. no title-page.
- 276 —Proceedings of the adjourned annual meeting of the Stockholders, Apr. 30th, 1867. Phil., 1867. 1 v., 9 x 6, b. p.
- 277 —Record of transportation lines owned and operated by, and associated in interest with, the company; 1880, '83-86, '89-90, '92-93, '95. Phil., 1881-96. 10 v., 12 x 9, pap.
- PHILADELPHIA & COLUMBIA R. R.** Report of the Superintendent of motive power, for the fiscal year ending Nov. 30th, 1852. no place, 1852. 1 v., tab., 9 x 6, b. p. Ah-28, p. 341.
- 161 —Superintendent's report; 1854. Harrisburg, 1854. 1 v., 9 x 6, pap.  
—Same; 1855. 1 v., 9 x 6, b. p. Ab-6, p. 465.
- 224 **PHILADELPHIA & ERIE R. R.** Annual report of the Managers to the Stockholders; 28th, 42d; 1879, '93. no place, 1879-93. 2 v., 9 x 6, pap.
- 49 **PHILADELPHIA & READING R. R.** Report of the President and Managers to the Stockholders; 1844-86, '89-91. Phil., 1845-91. 47 v. in 35, 9 x 5, b. p.
- PHILADELPHIA, GERMANTOWN & NORRISTOWN R. R.** Report of the President and Managers to the Stock and Loan holders, for the year ending Oct. 31st, 1852. Phil., 1852. 1 v., 9 x 6, b. p. Ah-28, p. 409.
- 117 **PHILADELPHIA, WILMINGTON & BALTIMORE R. R.** Annual report; 21st, 24th-25th, 36th, 38th-39th, 46th-48th; 1858, '62-63, '73, '75-76, '83-85. Pittsburg, 1859-86. 9 v., 9 x 6, pap.
- 281 —Annual report, with the report of the Chief Engineer; 11th; 1848. Phil., 1849. 1 v., 8 x 5, b. p.

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- 164 **PITTSBURGH & CONNELLSVILLE R. R.** Annual report of the President and Directors and the Chief Engineer to the Stockholders; 1853. Pittsburg, 1853. 1 v., 9 x 6, pap.
- 162 **PITTSBURGH & STEUBENVILLE R. R.** Annual report of the President and Directors to the Stockholders; 2d; 1853. Pittsburg, 1853. 1 v., 9 x 6, pap.
- 204 **PITTSBURGH, CINCINNATI & ST. LOUIS RY.** Annual report of the Board of Directors to the Stockholders; 7th, 12th. Pittsburg & Phil., 1875-80. 2 v., 9 x 6, pap.
- 166 **PITTSBURGH, FORT WAYNE & CHICAGO RY.** Annual report of the Directors to the Stockholders; 1st-6th; 1862-67. Pittsburg, 1863-68. 6 v., 9 x 6, pap.
- 119 —Annual report of the General Freight Agent; 1868. Pittsburg, 1869. 1 v., 9 x 5, pap.
- 118 —Report of the Comptroller, and of the General Superintendent. to the Board of Directors; 1862. Pittsburg, 1863. 1 v., 9 x 6, pap.
- 163 —Semi-annual report of the Directors to the Shareholders; 2d; 1859. Pittsburg, 1859. 1 v., 9 x 6, pap.
- 200 **PITTSBURGH, TITUSVILLE & BUFFALO RY.** Annual report; 1st, 3d-5th; 1876, '78-80. Phil., 1877-81. 4 v., 9 x 6, pap.
- 114 **PORTLAND & OGDENSBURG R. R.** Annual report of the President and Directors to the Stockholders; 9th-11th; 1878-80. Portland, Me., 1878-80. 3 v., 9 x 6, pap.
- POTSDAM & WATERTOWN R. R.** Exhibit, with a map showing its relations to other and connecting lines of railway, June 1st, 1854. N. Y., 1854. 1 v., map, 9 x 6, b. p. Af-5, p. 263.
- 133 **RACINE & MISSISSIPPI R. R.** Annual report; 3d; 1856. N. Y., 1856. 1 v., 9 x 6, pap.
- RACINE, JANESVILLE & MISSISSIPPI R. R.** Annual report; 1st. Racine, Wis., 1854. 1 v., maps, 9 x 5, b. p. Af-7, p. 201.
- 130 **RICHMOND & PETERSBURG R. R.** Proceedings of the Stockholders at their general meetings, and reports made by the President and Directors to the Stockholders; 20th, 24th; 1855, '59. Richmond, Va. 1855-59. 2 v., 8 x 5, 9 x 6, pap.
- 245 **RICHMOND, FREDERICKSBURG & POTOMAC R. R.** Annual meeting of the Stockholders; 6th; 1839. Richmond, Va., 1839. 1 v., 9 x 5, pap.
- 240 **RIO GRANDE WESTERN RY.** Annual report to the Stockholders; 1890-93, '95. N. Y., no date. 5 v., 9 x 6, pap.
- 172 **ROME, WATERTOWN & OGDENSBURG R. R.** Annual report of the Board of Directors; 1889-84, '86. N. Y., 1884-87. 3 v., 9 x 6, pap.
- 4 **RUTLAND & BURLINGTON R. R.** Annual report of the Directors; 5th; 1852. Bost., 1852. 1 v., 9 x 6, b. p.
- 129 **RUTLAND R. R.** Reports of the Managers to the Stockholders; with the official proceedings of the annual meeting; 1871. Rutland, Vt., 1872. 1 v., 9 x 6, pap.
- 128 **SACKET HARBOR & SARATOGA R. R.** Annual report; 2d; 1854. N. Y., 1854. 1 v., 9 x 6, pap.
- 244 **ST. LAWRENCE & ATLANTIC R. R.** Proceedings of a special general meeting of Proprietors, held in Montreal on the 30th of July, 1846; and report of A. C. Morton, Chief Engineer. Montreal, 1846. 1 v., 9 x 5, pap.
- Proceedings of the third annual general meeting of Proprietors of the St. L. & A. R. R., held in Montreal on the 19th of Jan., 1848; with the report of the Directors and Chief Engineer. Montreal, 1848. 1 v., 8 x 5, b. p. Ad-1, p. 642.
- 251 —Report of the President and Directors; 1847. Portland, 1847. 1 v., 9 x 6, pap.
- 126 **ST. LOUIS, ALTON & CHICAGO R. R.** Yearly report of the Receiver to the Trustees; 2d; 1861. Chic., 1862. 1 v., 9 x 6, pap.
- 132 **ST. LOUIS, ALTON & TERRE HAUTE R. R.** Annual report of the Board of Directors; 1st-3d; 1862-65. N. Y., 1864-66. 3 v., 9 x 6, pap.
- 131 —General Superintendent's report of operations and business; June 30th, 1863. St. Louis, 1863. 1 v., 9 x 6, pap.
- 123 **ST. LOUIS & IRON MOUNTAIN R. R.** Annual report of the Board of Directors; 11th-12th; 1863-64. St. Louis, 1863-64. 2 v., 9 x 6, pap.
- Same; 2d; 1854. 1 v., 9 x 6, b. p. Aj-1, p. 416.
- 207 **ST. LOUIS & SOUTHEASTERN RY.** Annual report of the Receivers; 3d; 1877. St. Louis, 1878. 1 v., 9 x 6, pap.
- 210 **ST. LOUIS, IRON MOUNTAIN & SOUTHERN RY.** Annual report to the Stockholders; 4th; 1877. St. Louis, 1878. 1 v., 9 x 6, pap.
- 217 **ST. LOUIS, VANDALIA & TERRE HAUTE R. R.** Annual report of the President and Treasurer of the operations of the Company; 4th; 1874. Pittsburg, 1875. 1 v., 9 x 6, pap.
- 241 **ST. PAUL, MINNEAPOLIS & MANITOBA RY.** Annual report; 13th-14th, 16th; 1892-93, '95. no place, no date. 3 v., 9 x 6, pap.



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- 274 **SAN FRANCISCO & MARYSVILLE R. R.** Reports of the Board of Directors and Chief Engineer, at the annual meeting of the Stockholders; 1860. Marysville, 1860. 1 v., 9 x 6, pap.
- 124 **SCHUYLKILL HAVEN & LEHIGH RIVER R. R.** Report of Commissioners; with report of survey by Alex. W. Rea. Phil., 1857. 1 v., 9 x 6, pap.
- 219 **SEABOARD & ROANOKE R. R.** Annual report of the President and Directors to the Stockholders; 26th; 1874. Norfolk, 1874. 1 v., 9 x 6, pap.
- 222 **SONORA RY.** Annual report of the Board of Directors to the Stockholders; 2d; 1881. Bost., 1882. 1 v., 9 x 6, pap.
- 158 **SOUTH CAROLINA CANAL & R. R. CO.** Semi-annual report; Jan., 1840. Charleston, 1840. 1 v., 8 x 5, pap.
- 165 **SOUTH CAROLINA R. R. and SOUTHWESTERN RAILROAD BANK.** Proceedings of the Stockholders; 1852-54. Charleston, 1852-54. 3 v., 9 x 6, pap.
- 266 **SOUTHEASTERN RY.** Report of the Directors to be submitted to the Proprietors at the half-yearly general meeting; 94th-98th, 100th; 1883-86. Lond., 1883-86. 6 v., 14 x 10, pap.
- 285 **SOUTHERN PACIFIC CO.** Annual report of the Company; its proprietary properties, and leased lines; 1889-92. San Francisco, 1890-93. 4 v., 12 x 9, pap.
- 127 **SOUTHERN PENNSYLVANIA IRON & R. R. CO.** Report of the President and Directors to the Stockholders; 1871. Phil., 1871. 1 v., 9 x 6, pap.
- 7 **SOUTHWESTERN R. R.** Report of the President to the Stockholders; 5th. Macon, Ga., 1852. 1 v., 9 x 6, b. p.
- 283 **SULLIVAN R. R.** Reports of the Directors and Treasurer; 1847. Claremont, N. H., 1847. 1 v., 7 x 4, b. p.
- 125 **SUNBURY & ERIE R. R.** Annual report of the Board of Managers to the meeting of the Stockholders; 3d, 9th; 1853, '60. Phil., 1853-60. 2 v., 9 x 6, pap.
- SUSQUEHANNA R. R.** Annual report of the President and Directors; accompanied by the report of the Chief Engineer; 1854. Harrisburg, Pa., 1854. 1 v., map, 9 x 5, b. p. Ab-6, p. 427.
- 98 **SYRACUSE & UTICA R. R.** Report to the Assembly; 1841. no place, 1842 (?) 1 v., 9 x 6, b. p. no title-page.
- 233 **TEBO & NEOSHO R. R.** Annual report of the President and Directors; 1869. St. Louis, 1869. 1 v., 9 x 6, pap.
- \* 145 **TENNESSEE & PACIFIC R. R.** Annual report; 1st; 1871. Nashville, 1871. 1 v., 9 x 6, pap.
- 7 **TERRE HAUTE & ALTON R. R.** Annual report of the President and Directors to the Stockholders; 1st; 1853. N. Y., 1853. 1 v., maps, 9 x 6, b. p.
- 139 **TERRE HAUTE & INDIANAPOLIS R. R.** Annual report of the President and Directors to the Stockholders, for the year ending Nov., 1871. Terre Haute, Ind., 1872. 1 v., 9 x 6, pap.
- 140 **TERRE HAUTE & RICHMOND R. R.** Annual report of the President and Directors to the Stockholders; 6th; 1854. Indianapolis, 1855. 1 v., 9 x 6, pap.
- 79 **TEXAS & PACIFIC RY. and MISSOURI PACIFIC RY.** Report to the Stockholders; 1884. N. Y., 1885. 1 v., 9 x 6, pap.
- TOLEDO & ILLINOIS R. R. and THE LAKE ERIE, WABASH & ST. LOUIS R. R.** Report; June, 1855. N. Y., 1855. 1 v., 9 x 5, b. p. Af-8, p. 359.
- 135 **TOLEDO & WABASH RY.** Annual report to the Stockholders; 3d; 1861. Toledo, 1861. 1 v., 10 x 7, pap.
- 134 **TOLEDO, WABASH & WESTERN RY.** Annual report to the Stockholders, 1869. Toledo, 1870. 1 v., 10 x 7, pap.
- 116 **TORONTO & NIPISSING RY.** Report of the Directors; 1872. Toronto, 1872. 1 v., 9 x 6, pap.
- 176 **TROY & GREENFIELD R. R. and HOOSAC TUNNEL CO.** Annual report; 3d, 11th; 1853, '61. no place, 1853-61. 2 v., 9 x 6, pap.
- 177 —Annual report of the Manager; 1880. 1 v., 9 x 6, pap. no title-page.  
—Report for the six months ending Dec. 31st, 1875. Bost., 1876. 1 v., 9 x 6, pap. Af-158.
- 91 **TUSCUMBIA, COURTLAND & DECATUR R. R.** Annual report of the officers; 3d-4th; 1835-36. Tuscumbia, Ala., 1836. 1 v., 8 x 5, pap.
- 144 **UNION PACIFIC R. R.** Annual report of the Chief Engineer; with accompanying reports of Chiefs of Parties; 1866-69. Wash., 1868-70. 3 v., 9 x 6, pap.
- 141 —Report of the organization and proceedings of the Company. N. Y., 1864. 1 v., 9 x 6, pap.
- 142 —Report of the Vice-President and General Manager to the Board of Directors, in relation to the operations of the Engineer Department, and the construction of the road; 1864-65. N. Y., 1866. 2 v., 9 x 6, pap.
- 143 —Report to the Stockholders; 1877. N. Y., 1878. 1 v., 9 x 6, pap.

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- 293 **UNION PACIFIC RY.** Annual report of the Directors to the Stockholders; 11th-14th; 1890-93. Bost., 1891-94. 4 v., 12 x 9, pap.
- 242 **UTICA & SCHENECTADY R. R.** Annual report to the Directors; 3d; 1836. no place, no date. 1 v., 9 x 6, pap.  
 —Communications from the Treasurer transmitting a statement of the receipts and expenditures of the Company. Albany, 1841. 1 v., 9 x 6, b. p. Ab-5, p. 571.  
 —Report in answer to a resolution of the Assembly of the 5th of Feb. Albany, 1841. 1 v., 9 x 6, b. p. Ab-5, p. 527.  
 —Report to the Assembly. Albany, 1842. 1 v., 9 x 6, b. p. Ab-5, p. 623.  
 —Statement; Dec. 31st, 1846. Schenectady, N. Y., 1847. 1 v., 8 x 5, b. p. Ad-1, p. 580.
- 136 **VERMONT & MASSACHUSETTS R. R.** Annual report of the Directors to the Stockholders; 1850. Cambridge, Mass., 1851. 1 v., 9 x 6, pap.  
 —Same; 1856. 1 v., 9 x 6, b. p. Ah-26, p. 203.
- 138 **VICKSBURG, SHREVEPORT & TEXAS R. R.** Annual report of the President and Directors and Chief Engineer, submitted to the Stockholders; 6th; 1858. Monroe, La., 1858. 1 v., 9 x 5, pap.
- VIRGINIA & TENNESSEE R. R.** Annual report of the President and Directors to the Stockholders; 8th; 1855. Richmond, 1855. 1 v., 9 x 6, b. p. Ab-6, p. 1117.  
 —Same; 2d; 1849. 1 v., 8 x 5, b. p. Ad-1, p. 1010.  
 —Same; 7th; 1854. 1 v., 8 x 5, b. p. Ae-1, p. 623.
- 199 **VIRGINIA CENTRAL R. R.** Annual report of the President and Directors to the Stockholders at their annual meeting; 18th, 32d; 1853, '67. Richmond, 1853-67. 2 v., 9 x 6, pap.
- WATERTOWN & ROME R. R.** Report of the Superintendent to the Directors of the W. & R. R. R.; Dec., 1852. E. B. Doxtater. Rome, N. Y., 1852. 1 v., map, 9 x 6, b. p. Ab-3, p. 155.
- 203 **WEST CHESTER & PHILADELPHIA R. R.** Annual report of the President and Managers; 21st; 1870. Phil., 1870. 1 v., 9 x 6, pap  
 —Same; 3d; 1852. 1 v., 9 x 6, b. p. Ah-28, p. 381.  
 5 —Same; 4th; 1854. 1 v., 9 x 6, b. p.
- 159 **WESTERN & ATLANTIC R. R.** Reports of the Superintendent and Treasurer to the Governor of Georgia; 1855. Atlanta, 1855. 1 v., 9 x 6, pap.
- 149 **WESTERN RAILROAD CORPORATION.** Annual report of the Directors to the Stockholders; 1st, 6th-8th, 10th, 17th, 19th, 24th, 29th, 31st, 33d; 1836, '41-43, '45, '52, '54, '59, '64, '66, '68. Bost. & Springfield, Mass., 1836-68. 11 v., 9 x 6, pap.
- 278 —Same; 1st-6th; 1836-41. 6 v., 9 x 5, b. p.
- 148 —Proceedings; with a report of the Committee of Investigation; 1843. Bost., 1843. 1 v., 9 x 5, pap.  
 —Report of the Committee of the Stockholders appointed at the annual meeting in Feb., 1851, to examine into the system of accountability in the Collecting and Disbursing Departments; and also the condition and value of the property of the Corporation; submitted to the Stockholders at their annual meeting, Feb., 1852. Bost., 1852. 1 v., 8 x 5, b. p. Ab-1, p. 25.
- 194 **WEST WISCONSIN RY.** Report of the condition of the Company; Dec. 1st, 1876. N. Y., 1876. 1 v., maps, 9 x 6, pap.
- 212 **WILLIAMSTON & TARBORO' R. R.** Annual meeting of the Stockholders; 1867-68. Tarboro', N. C., 1869. 1 v., 8 x 5, pap.
- WILMINGTON & MANCHESTER R. R.** Proceedings of the annual meeting of the Stockholders; 5th, 7th; 1853, '55. Wilmington, N. C., 1853-55. 2 v., 9 x 6, b. p. Ah-26, pp. 623, 687.
- WILMINGTON & RALEIGH R. R.** Proceedings of the Stockholders at their annual meeting; 15th-17th; 1850-52. Wilmington, N. C., 1850-52. 3 v., 8 x 5, b. p. Ab-1, p. 425.
- 90 **WILMINGTON & READING R. R.** Report of the Directors to the Stockholders; 1869. Wilmington, Del., 1870. 1 v., 9 x 6, pap.
- 146 **WORCESTER & NASHUA R. R.** Annual report of the Directors to the Stockholders; 1879-80. Worcester, 1879-80. 2 v., 9 x 6, pap.
- 170 **WRIGHTSVILLE & TENNILLE R. R.** Annual report; 1st-7th; 1884-90. Savannah & Tennille, 1886-90. 7 v. in 6, 9 x 6, pap.
- YORK & CUMBERLAND R. R.** Annual report of the President and Directors; 3d-6th; 1851-54. Balt., 1851-54. 4 v., 9 x 5, b. p. Af-4, p. 757.  
 —Annual reports to the Stockholders of the Directors, Engineer, and Treasurer; Aug., 1850. Portland, Me., 1850. 1 v., 8 x 5, b. p. Ab-1, p. 409.

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- 69 **ALABAMA—RAILROAD COMMISSIONERS.** Annual report; 6th; 1886. Montgomery, 1887. 1 v., 9 x 6, cl.
- 45 **CALIFORNIA—COMMISSIONERS OF TRANSPORTATION.** Biennial report; 2d; 1877-78. Sacramento, 1879. 1 v., 9 x 6, cl.
- 44 —Report to the Legislature; 1877. Sacramento, 1877. 160 pp., 9 x 6, cl.
- 75 **CALIFORNIA—RAILROAD COMMISSIONERS.** Annual report; 9th-10th; 1888-89. Sacramento, 1889. 2 v., 9 x 6, cl.
- 15 **CONNECTICUT—RAILROAD COMMISSIONERS.** Annual report; to which are added statistical tables compiled from annual returns of the railroad companies of the state; 19th-47th; 1871-99. Hartford, 1872-99. 27 v., 9 x 6, cl., pap.
- 26 —Same; 1854-55. 1 v., 9 x 6, b. p.
- 73 **DAKOTA—BOARD OF RAILROAD COMMISSIONERS.** Annual report; 2d; 1886. Grand Forks, 1886. 1 v., 9 x 6, pap.
- 18 **GEORGIA—RAILROAD COMMISSION.** Annual report; 21st; 1893. Atlanta, 1893. 1 v., 9 x 6, pap.
- 20 **ILLINOIS—RAILROAD AND WAREHOUSE COMMISSION.** Annual report; 1st-24th; 1871-94. Note: Reports 8th, 10th, 12th-14th, 17th, wanting. Springfield, 1872-95. 18 v., 9 x 6, cl.
- 14 **IOWA—BOARD OF RAILROAD COMMISSIONERS.** Annual report for the year ending June 30th; 1st-20th; 1878-97. Des Moines, 1878-98. 20 v., 9 x 6, cl.
- 21 —Before the Board in the matter of the application of the Illinois Central R. R. Co.; the Chicago, Milwaukee & St. Paul Ry. Co.; the Chicago & Northwestern Ry. Co.; the Chicago, Rock Island & Pacific Ry. Co.; the Chicago, Burlington & Quincy R. R. Co., etc., for the advance in freight rates; decided Jan. 12th, 1895. ed. 2. Des Moines, 1895. 51 pp., 9 x 6, pap.
- 13 —Index to all reports, 1878-1894, inclusive. no place, no date. pp. 431-480, 9 x 6, pap.
- 42 **IOWA—EXECUTIVE COUNCIL.** Annual report of the assessed valuation of railroad property in the State; 1879, '97. Des Moines, 1879-97. 2 v., 9 x 6, pap.
- 72 **KANSAS—BOARD OF RAILROAD COMMISSIONERS.** Annual report; 4th-7th. 9th; 1886-89, '91. Topeka, 1886-92. 5 v., 9 x 6, cl.
- 70 **KENTUCKY—RAILROAD COMMISSIONERS.** Report; 7th, 9th-10th; 1886, '88-89. Frankfort, 1887-89. 3 v., 10 x 6, cl.
- 57 **MADRAS—PUBLIC WORKS DEPARTMENT—RY. BRANCH.** Administration report; 1897-99. Madras, 1898-99. 2 v., 13 x 6, pap.
- 16 **MAINE—RAILROAD COMMISSIONERS.** Annual report; with statistical tables compiled from the annual returns of the railroad companies operating railroads in the state; 21st-22d, 27th, 33d-39th, 41st; 1879-80, '85, '91-97, '99. Augusta, 1879-99. 11 v., 9 x 6, pap., cl.
- MARYLAND—COMMITTEE ON WAYS AND MEANS.** Report in compliance with the orders of the House of Delegates in relation to the subscription of the state to certain Internal Improvement Companies. no place, 1836. 96 pp., 9 x 6, b. p. Cfb-5, p. 217.
- MASSACHUSETTS.** Report of the Joint Special Committee to whom so much of the Governor's address, as related to those railroad corporations for which the state has assumed liabilities, was referred. Bost., 1850. 36 pp., 9 x 5, b. p. Ag-278, p. 427.
- Report of the Joint Special Committee, to whom was referred an order of the 18th of January, in relation to the past management and present condition of the Western R. R. Corporation. no place, 1843. 41 pp., 9 x 5, b. p. Ag-279, p. 245.
- MASSACHUSETTS—BOARD OF DIRECTORS OF INTERNAL IMPROVEMENTS.** Report on the practicability and expediency of a railroad from Boston to the Hudson River and from Boston to Providence, submitted to the General Court, Jan. 16th, 1829; to which are annexed the reports of the engineers, containing the results of their surveys, and estimates of the cost of constructing a railroad on each of the routes selected. Bost., 1829. 76 + 119 pp., map, 9 x 5, b. p. Ab-362, p. 25.
- 8 **MASSACHUSETTS—BOARD OF RAILROAD COMMISSIONERS.** Annual report; 1st-31st; 1870-99. Bost., 1872-1900. 31 v., 9 x 6, cl.
- 30 —Report on the Boston & Maine R. R. strike of Feb. 12th, 1877. Bost., 1877. 17 pp., 9 x 6, pap. no title-page.
- 9 —Special report to the Legislature in relation to the disaster on Mar. 14th, 1887, on the Dedham Branch of the Boston & Providence R. R., at the bridge commonly known as the Bussey Bridge. Bost., 1887. 420 pp., pl., 9 x 6, cl.
- Report of the Commissioner appointed under the resolve of 1849. Chap. 94, relating to railroads crossing each other in the vicinity of Boston, with accompanying plans. no place, 1850. 13 pp., maps, 9 x 5, b. p. Ad-3, p. 745.
- 6 **MASSACHUSETTS—COMMITTEE ON RAILWAYS AND CANALS.** Annual report of the railroad corporations; 1842-49. Bost., 1843-50. 2 v., 9 x 6, ½ ro.
- Same; 1889. 1 v., 9 x 5, b. p. Ag-278, p. 355.



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- MASSACHUSETTS—JOINT SPECIAL COMMITTEE ON RAILROADS.** Report on so much of the Governor's address as relates to those railroad corporations for which the state has assumed liabilities. Bost., 1840. 36 pp., 9 x 5, b. p. Ab-98, p. 43.
- MASSACHUSETTS—JOINT SPECIAL COMMITTEE ON THE TUNNEL LINE OF RAILROAD.** Report of the committee, to whom was referred that portion of the Governor's message which relates to the Tunnel Line of Railroad. no place, 1874. 48 pp., 9 x 6, b. p. no title-page. Ab-7, p. 599.
- 7 **MASSACHUSETTS—SECY. OF THE COMMONWEALTH.** Annual reports of the railroad corporations, to which is added an abstract of said returns; 1851-54, '65-67. Bost., 1852-68. 7 v., 9 x 6, pap., cl.
- 47 **MASSACHUSETTS—TROY & GREENFIELD R. R. AND HOOSAC TUNNEL COMMISSIONERS.** Annual report; 1863-68. Bost., 1863-69. 6 v., 9 x 6, pap.
- 38 **MASSACHUSETTS—JOINT STANDING COMMITTEE ON TROY & GREENFIELD R. R. AND HOOSAC TUNNEL.** Report; 1864-72. Note: Report for 1871 wanting. Bost., 1865-73. 8 v., 9 x 6, pap.
- 36 **MICHIGAN—AUDITOR GENERAL.** Compilation of the annual reports of the railroad corporations; 1867. Lansing, 1868. 1 v., 9 x 6, pap.
- 3 **MICHIGAN—COMMISSIONER OF RAILROADS.** Annual report; 1st-8th, 19th; 1872-79, '91. Lansing, 1874-91. 9 v., 9 x 6, cl.
- 31 —Comparative summary from returns of 1874-1878, showing percentages of increase and decrease; prepared for the report for 1878. no place, no date. 2 pp., 16 x 14, pap. no title-page.
- 35 **MINNESOTA—RAILROAD COMMISSIONER.** Annual report; 1875. St. Paul, 1876. 1 v., 9 x 6, pap.
- MISSOURI—BOARD OF PUBLIC WORKS.** Report; made to the Governor of the State of Missouri, Dec., 1855. Jefferson City, 1855. 63 pp., 9 x 5, b. p. Af-217, p. 479.
- 22 **MISSOURI—RAILROAD COMMISSIONERS.** Annual report; 5th-6th, 12th; 1879-80, '86. St. Louis, no date. 2 v., 9 x 6, cl.
- 43 **NEW HAMPSHIRE—RAILROAD COMMISSIONERS.** Annual report; 47th-51st; 1891-1895. Concord, 1892-96. 5 v., 9 x 6, cl.
- NEW JERSEY—LEGISLATURE.** Report of the committee appointed to examine into the condition, affairs, revenue, and future prospects of the New Jersey Railroad & Transportation Co. Trenton, 1837. 19 pp., 8 x 5, b. p. Ac-139, p. 297.
- 32 **NEW JERSEY—SECRETARY OF STATE.** Annual reports of the Railroad and Canal Companies of the State; 1854, '59, '64, '67. Trenton, 1854-68. 4 v., 9 x 6, pap.
- NEW YORK—(ASSEMBLY) COMMITTEE ON ALBANY & WEST STOCK-BRIDGE RAILROAD.** Report of the Select Committee on the petition of the Mayor and Commonalty of the city of Albany relative to raising money for making the A. & W. S. R. R. no place, 1839. 5 pp., 9 x 6, b. p. Ab-5, p. 119.
- NEW YORK—(ASSEMBLY) COMMITTEE ON CLAIMS.** Report on the petition of James Seymour for additional compensation for services as engineer rendered to the committee appointed by the House of Assembly of 1841, to investigate the affairs of the New York & Erie R. R. Co. Albany, 1843. 4 pp., 9 x 6, b. p. Cfh-37, p. 912.
- NEW YORK—(ASSEMBLY) COMMITTEE ON RAILROADS.** Report of the Majority of the Committee in relation to a railroad from Ogdensburg to Lake Champlain. no place, 1842. 3 pp., 9 x 6, b. p. Ab-5, p. 591.
- Report of the Majority of the Committee on the Memorial of the President and Directors of the New York & Erie R. R. Co., and several petitions of sundry citizens of the southern tier of counties in the State. no place, 1840. 27 pp., 9 x 6, b. p. Ab-5, p. 249.
- Report of the Majority of the Committee on the petition of the Mohawk & Hudson River R. R. Co. for state aid. Albany, 1839. 10 pp., 9 x 6, b. p. Ab-5, p. 219.
- Report of the Majority of the Committee on the petitions of several railroad companies, and the petitions of sundry citizens of various counties in the state, praying for state aid. no place, 1839. 31 pp., 9 x 6, b. p. Ab-5, p. 165.
- Report of the Majority of the Committee on the petitions of the New York & Albany R. R. Co., and others. no place, 1839. 39 pp., 9 x 6, b. p. Ab-5, p. 63.
- Report of the Majority of the Committee, upon the petitions of sundry inhabitants of the northern counties in this State, praying for aid to the Washington & Saratoga R. R. Co. no place, 1840. 3 pp., 9 x 6, b. p. Ab-5, p. 331.
- Report on a petition of the President, Directors and Company of the Auburn & Rochester R. R. Company and the petitions of sundry citizens. Albany, 1839. 4 pp., 9 x 6, b. p. Ab-5, p. 49.

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- Report on communications from the Albany & West Stockbridge and the Hudson & Berkshire R. R. Cos., relative to certain contracts between those companies, etc. no place, 1841. 9 pp., 9 x 6, b. p. Ab-5, p. 561.
- Report on petitions for and remonstrances against aid from the state to expedite the construction of the Saratoga & Washington R. R. no place, 1841. 7 pp., 9 x 6, b. p. Ab-5, p. 543.
- Report on petitions for the construction by the state of a railroad from Ogdensburg to Lake Champlain. no place, 1841. 10 pp., 9 x 6, b. p. Ab-5, p. 487.
- Report on the memorial of the President, Directors and Company of the New York & Erie R. R. Co., and the memorials and petitions of citizens of sundry counties. no place, 1839. 22 pp., map, 9 x 6, b. p. Ab-5, p. 125.
- Report on the petition of inhabitants of the counties of St. Lawrence, Franklin, Clinton and Essex, in relation to the Ogdensburg & Lake Champlain R. R. no place, 1839. 15 pp., 9 x 6, b. p. Ab-5, p. 149.
- Report on the petition of the Hudson River R. R. Co., for an amendment of its charter. Albany, 1850. 4 pp., 8 x 5, b. p. Af-218, p. 413.
- Report on the petition of the President and Directors of the Schenectady & Troy R. R. Co. no place, 1839. 8 pp., 9 x 6, b. p. Ab-5, p. 197.
- Report on the petition of the President, Directors, and Company of the Canajoharie & Catskill R. R. Co., and others. no place, 1839. 5 pp., 9 x 6, b. p. Ab-5, p. 205.
- Report on the petitions of the President, Directors, and Company of the New York & Erie R. R. Co., and of sundry citizens. no place, 1838. 35 pp., 9 x 6, b. p. Ab-5, p. 13.
- Report on the petitions of the Saratoga & Washington R. R. Co., and others. no place, 1839. 10 pp., 9 x 6, b. p. Ab-5, p. 53.
- Report upon a resolution passed on the 6th day of March last, instituting an inquiry into the affairs of railroad companies. no place, 1840. 15 pp., 9 x 6, b. p. Ab-5, p. 335.

**NEW YORK—(ASSEMBLY) COMMITTEE ON WAYS AND MEANS.** Report of the Majority of the Committee on the special message of the Governor respecting the imposition of tolls on railroads. no place, 1855. 16 pp., 9 x 6, b. p. Af-5, p. 1195.

- 48 **NEW YORK—(ASSEMBLY) SPECIAL COMMITTEE ON RAILROADS.** Proceedings of the Committee appointed under a resolution of the Assembly to investigate alleged abuses in the management of railroads chartered by the State of New York. N. Y., 1879. 3 v. in 7, 9 x 6, cl.
- 53 —Testimony of George R. Blanchard before the Committee appointed to investigate alleged abuses in the management of the railroads of the State, Oct. 17th to 25th, 1879. N. Y., 1880. 692 + 55 pp., tab., 9 x 6, cl.
- 11 **NEW YORK—BOARD OF RAILROAD COMMISSIONERS.** Annual report; 1883-99. Albany, 1884-1900. 35 v., 9 x 6, cl.
- 54 —Profile of the grades of the railroads of the State of New York. 27 pl., map, 15 x 10, ¾ mor. no title-page.
- 12 —Report on strains on railroad bridges of the State, June 30th, 1891. Albany, 1891. 1880 pp., il., 9 x 6, mor.
- 29 —Sections of rails. 41 pp., 10 x 7, ¾ mor. no title-page.
- 23 **NEW YORK—COMMISSIONERS OF NEW YORK & ERIE R. R.** Report of the Commissioners appointed by the act of May 11th, 1846, to locate certain portions of the N. Y. & E. R. R.; made to the Legislature, Jan. 14th, 1847. N. Y., 1847. 41 pp., maps, 8 x 5, pap.
- Report of the Minority of the Commissioners to locate certain parts of the N. Y. & E. R. R., made to the Assembly. Albany, 1847. 35 pp., 8 x 5, b. p. Ag-282, p. 209.
- NEW YORK—COMMISSIONERS ON OGDENSBURG & LAKE CHAMPLAIN RAILROAD.** Report of the Commissioners appointed to cause a survey to be made of the several routes for a railroad from Ogdensburg to Lake Champlain. Albany, 1841. 115 pp., map, 9 x 6, b. p. Ab-5, p. 351.
- NEW YORK—GOVERNOR.** Message to the Legislature relative to reimposition of canal tolls on railroads. Albany, 1855. 6 pp., 9 x 6, b. p. Af-5, p. 1207.
- NEW YORK—RAILROAD COMMISSIONER.** Annual report of the Commissioner, appointed under the act entitled "An act in relation to the construction of the New York & Erie R. R.;" 1843. Albany, 1844. 1 v., 10 x 6, b. p. Cfh-41, p. 39.
- 23 **NEW YORK—SECRETARY OF STATE.** Annual report relative to railroad statistics; 1845, '47. Albany, 1845-47. 2 v., 8 x 5, b. p.
- Same; 1844. 1 v., 9 x 6, b. p. Cfh-6, p. 337.
- NEW YORK—(SENATE) COMMITTEE ON COMMERCE AND NAVIGATION.** Report relative to the Panama R. R. no place, 1855. 7 pp., 9 x 6, b. p. Ag-5, p. 255.

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- 28 **NEW YORK—(SENATE) COMMITTEE ON RAILROAD ACCIDENTS.** Report of the Committee appointed to examine and report the causes of railroad accidents, the means of preventing their recurrence, etc. Albany, 1853. 156 pp., 9 x 6, b. p.
- NEW YORK — (SENATE) COMMITTEE ON RAILROADS.** Report on sundry petitions for the immediate construction of the New York & Erie R. R. by the state. no place, 1839. 15 pp., 9 x 6, b. p. Ab-5, p. 103.
- Report on the bill to incorporate the Hudson River R. R. Co. Albany, 1843. 28 pp., 9 x 6, b. p. Cfh-37, p. 929.
- Report on the Memorial of the Sackets Harbor & Saratoga R. R. Co. no place, 1855. 24 pp., 9 x 6, b. p. Af-5, p. 1215.
- Report on the message of the Governor in relation to the deficiencies in the canal revenue. no place, 1855. 20 pp., 9 x 6, b. p. Af-5, p. 1167.
- Report on the petitions for the construction of the Ogdensburg & Champlain R. R. no place, 1840. 12 pp., 9 x 6, b. p. Ab-5, p. 229.
- Report on the petitions from the New York & Harlem, the Long Island, and the New York & Albany R. R. Cos., asking aid from the State. no place, 1840. 16 pp., 9 x 6, b. p. Ab-5, p. 309.
- NEW YORK—STATE COMPTROLLER.** Report in relation to the issue of certificates of state stock to the New York & Erie R. R. Co. Albany, 1841. 18 pp., 9 x 6, b. p. Ab-5, p. 497.
- 10 **NEW YORK—STATE ENGINEER AND SURVEYOR.** Annual report on the railroads of the State of New York; 1849-82. Note: Reports 1856-57 wanting, Albany, 1850-83. 31v., 9 x 6, cf., cl.
- NEW YORK—SURVEYOR-GENERAL.** Report relative to the incorporated Canal and Railroad Companies. 1843. (See Cfh-37, p. 915.)
- 68 **NORTH CAROLINA—BOARD OF RAILROAD COMMISSIONERS.** Annual report; 1st-3d, 6th-7th; 1891-93, '96-97. Raleigh, 1892-98. 5 v., 10 x 6, cl.
- 4 **OHIO—COMMISSIONER OF RAILROADS AND TELEGRAPHS.** Annual report; 1867-84, '87-88. Columbus, 1868-89. 21 v., 10 x 6, cl.
- 39 —Special report in answer to House Resolution No. 130. Columbus, 1881. 73 pp., 9 x 6, pap.
- 4 —Special reports for the year 1884-85. no place, 1885. 221 pp., 10 x 6, cl.
- 5 **OHIO—(SENATE) SPECIAL COMMITTEE ON RAILROADS AND TELEGRAPHS.** Report, Feb. 1st, 1867. Columbus, 1867. 197 pp., 9 x 6, pap.
- 74 **OREGON—BOARD OF RAILROAD COMMISSIONERS.** Biennial report; 1st-2d; 1889-91. Salem, 1889-91. 2 v., 9 x 6, pap.
- 1 **PENNSYLVANIA—AUDITOR-GENERAL.** Reports of the several Railroad and Canal Companies; 1861-74. Note: 1868-74 includes reports of Canal and Telegraph Companies. For reports subsequent to 1874 see Annual Report of the Secretary of Internal Affairs, pt. 4. Reports, 1862-63, '71-73 wanting. Harrisburg, 1862-74. 9 v., 10 x 6, cl.
- 41 —Tabulated results compiled from the Annual Reports of Railroads, Passenger Railways, Canal and Telegraph Companies, 1873-75. Note: For subsequent reports see Pennsylvania-Secretary of Internal Affairs. Harrisburg, 1874-76. 3 v., 9 x 6, pap.
- 37 **PENNSYLVANIA — AUDITOR-GENERAL AND STATE TREASURER.** Cost, revenue and expenditure of the Public Works of Pennsylvania to Nov. 30th, 1853. Harrisburg, 1854. 16 pp., 9 x 6, pap.
- Same; 1852. 16 pp., 9 x 6, b. p. Fg-6, p. 125.
- 34 **PENNSYLVANIA—JUDICIARY COMMITTEE.** Report of the sub-committee appointed by the Judiciary Committee (general) of the House of Representatives of 1872, in regard to Railroad Companies making incorrect returns. Harrisburg, 1873. 71 pp., 9 x 6, pap.
- 2 **PENNSYLVANIA—SECRETARY OF INTERNAL AFFAIRS.** Annual report; pt. 4, 1875; pt. 4, 1876; pt. 4, 1880; pts. 1-2, 1884; pts. 3-4, 1885. Note: Contains returns of Railroad, Canal and Telegraph Companies. Harrisburg, 1876-86. 7v., 10 x 6, cl.
- 40 —Tabulated results compiled from the Annual Reports of Railroad, Passenger Railway, Canal and Telegraph Companies operated in the State of Pennsylvania; 1875. Note: For reports prior to 1875 see Pennsylvania-Auditor-General. Harrisburg, 1876. 1v., 9 x 6, pap.
- 51 **RHODE ISLAND—RAILROAD COMMISSIONER.** Annual report; made to the General Assembly; 1868, '73, '78-86, '89, '91, '93. Providence, 1868-94. 14 v., 9 x 6, pap.
- 52 —Semi-annual report; made to the General Assembly; Jan., 1874—Jl., 1877. Note: Reports for Jl., 1874, Jl., 1875, Jl., 1876, Jl., 1877, wanting. Providence, 1874-77. 4 v., 9 x 6, pap.
- 50 —Report; made to the General Assembly at its May Session, 1867. Providence, 1867. 7 pp, 10 x 6, pap.



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- TENNESSEE—GOVERNOR.** Special message to the General Assembly; with the report of the Commissioner of Roads, Jan. 29th, 1856. Nashville, 1856. 13 pp., 9 x 5, b. p. Af-8, p. 395.
- 19 **TEXAS—RAILROAD COMMISSION.** Annual report; 2d-8th; 1898-99. Note: 5th report wanting. Austin, 1893-1900. 5 v., 9 x 6, pap.
- 46 **VERMONT—BOARD OF RAILROAD COMMISSIONERS.** Biennial report; 1st; Dec., 1886—Je., 1888. Bost., 1888. 1 v., 10 x 6, pap.
- VIRGINIA—COMMITTEE ON FRENCH'S EXPERIMENTAL RAILWAY.** Report of the Committee to examine French's Experimental Ry.; made to the General Assembly. no place, 1851. 6 pp., 9 x 5, b. p. Ad-3, p. 761.
- VIRGINIA—BOARD OF PUBLIC WORKS.** Annual Report to the General Assembly of Virginia, with the accompanying documents; 34th. 1849. (See Cfg-1, v. 3, p. 478.)
- 17 **WISCONSIN—RAILROAD COMMISSIONER.** Annual report; 3d-7th; 1876-80. Note: 1879 wanting. Madison, 1876-81. 4 v., 9 x 6, cl.
- 71 ——— Biennial report; 2d; 1885-86. Madison, 1887. 1 v., 9 x 6, pap.

## RAILROADS—REPORTS, GOVERNMENT.

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- 9 **ARGENTINE REPUBLIC—DEPARTAMENTO DE INGENIEROS CIVILES.** Memoria sobre ferrocarriles nacionales y estado de valores al 30 de Junio de 1883. Buenos Aires, 1883. 2 v., 10 x 7, pap.
- 84 **AUSTRIA—GENERAL-INSPECTION DER EISENBAHNEN.** Beiträge zur Beleuchtung der allgemeinen Verhältnisse der österreichischen Eisenbahnen, zusammengestellt im auftrage des Handelsministeriums auf Grund des für die Weltausstellung, 1878, in Paris, angefertigten Elaborates. Pt. 1. Wien, 1879. 1 v., 14 x 9, pap.
- 30 **BELGIUM—MINISTÈRE DES TRAVAUX PUBLICS.** Chemin de fer de l'état, postes, télégraphes marines: Compte rendu des opérations; 1868-74. Bruxelles, 1869-75. 2 v., 13 x 8,  $\frac{3}{4}$  skiv.
- 2 **CANADA—DEPARTMENT OF RAILWAYS AND CANALS.** Annual report; 1881-98. Note: Report for 1896 wanting. Ottawa, 1881-99. 17 v., 10 x 6, pap.
- 3 ——— Reports: Railway statistics of Canada, and capital, traffic and working expenditure of the railways of the Dominion; 1880-92. Ottawa, 1881-93. 13 v., maps, 10 x 5, pap.
- 4 **CANADA—ROYAL COMMISSION ON RAILWAYS.** Report; with appendices. Ottawa, 1883. 41 pp., 10 x 6, pap.
- 68 **CANADA—(SENATE) COMMITTEE ON ROUTES TO THE YUKON.** Report upon opening up direct communication between the railway system of Canada and the navigable waters of the Yukon. Ottawa, 1898. 134 pp., 10 x 7, pap.
- CANADA—STANDING COMMITTEE ON RAILROADS AND TELEGRAPH LINES.** Proceedings; together with the minutes of evidence. Toronto, Ont., 1851. 148 + 294 pp., tab., 9 x 6, b. p. Fg-6, p. 515.
- 33 **CAPE OF GOOD HOPE—GENERAL MANAGER OF RAILWAYS.** Report; 1892-93. Cape Town, 1893-94. 2 v., 13 x 8, pap.
- 21 **FRANCE—COMMISSION DE STATISTIQUE DES CHEMINS DE FER.** Documents statistiques sur les chemins de fer. Paris, 1856. 172 + 184 pp., 14 x 10,  $\frac{3}{4}$  mor.
- 22 **FRANCE—DIRECTION GÉNÉRALE DES PONTS ET CHAUSSEES ET DES CHEMINS DE FER.** Chemins de fer: Conditions techniques d'établissement. Paris, 1865. 38 + 187 pp., maps, 14 x 10,  $\frac{3}{4}$  cf.
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- 32 **GREAT BRITAIN—BOARD OF TRADE.** Circular of the 30th day of July, 1864, to the Railway Companies, on the subject of a means of communication between different parts of a railway train whilst in motion; correspondence between the Board of Trade and the Committee of the Railway Clearing House; and reports by the Committee and Capt. Tyler on the same subject. no place, 1865. 23 pp., 13 x 8, pap.

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- 51 —General report in regard to the share and loan capital, traffic in passengers and goods, and the working expenditure and net profits from railway working of the Railway Companies of the United Kingdom, for the year 1894. Lond., 1895. 1 v., 13 x 8, pap.
- 23 —Railway returns for England and Wales, Scotland and Ireland; with summary tables for United Kingdom; 1883-84, '86, '94-97. Lond., 1884-98. 7 v., 13 x 8, pap.
- 31 —Railway returns of England and Wales, Scotland and Ireland, relative to the accidents, traffic, and expenditures of the several Railway Companies for the year 1865. no place, 1866. 1 v., 13 x 8, pap. no title-page.
- 45 —Railways: Returns relating to capital and loans, lengths of lines opened and in course of construction, and to the expiration of powers for compulsory purchase of land. Lond., 1858. 42 pp., 13 x 9, pap. no title-page.
- 58 —Report of Proceedings under Section 31 of the Railway and Canal Traffic Act, 1888, including Proceedings upon complaints made under Section 1 of the Railway and Canal Traffic Act, 1894; 5th; 1897. Lond., 1897. 1 v., 13 x 8, pap.
- 48 —Report of the Committee appointed to consider the question of wind pressure on railway structures. Lond., 1881. 17 + 12 pp., 13 x 8, pap.
- 67 —Report upon the Railway and Canal Bills, and Bills relating to harbours, docks, and tidal waters; of Session, 1865. no place, 1865. 31 pp., map, 14 x 9, pap.
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- 52 —Return by the Railway Companies of the United Kingdom, on continuous brakes; 1890-98. Note: Returns are published semi-annually. Returns for six months ending Dec., '90, Dec., '91, June, '92, Dec., '92, June, '93, Dec., '93, and June, '98, wanting. Lond., 1890-99. 10 v., 13 x 8, pap.
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- 25 **GREAT BRITAIN—COMMISSIONERS OF RAILWAY STRUCTURES.** Report of the Commissioners appointed to inquire into the application of iron to railway structures. Lond., 1849. 2 v. in 1, il., pl., map, 13 x 8, ½ skiv.
- 46 **GREAT BRITAIN—COMMISSIONERS OF RAILWAYS.** Report; 1846-50. Note: For subsequent reports, see Great Britain-Railway Department. Lond., 1848-51. 4 v. in 2, il., pl., map, 13 x 8, ½ sh.
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- 46 —Return of the passenger and goods traffic on each railway in Great Britain and Ireland, 1846-47. Lond., 1848. 1 v., 13 x 8, b. p.
- 26 **GREAT BRITAIN—GAUGE COMMISSIONERS.** Report presented to both houses of Parliament by command of Her Majesty. v. 1, Minutes of evidence taken before the Commission. v. 2, Report, Appendix. Lond., 1846. 2 v., 27 + 818 pp., 13 x 9, ¾ skiv.
- 49 **GREAT BRITAIN—JOINT SELECT COMMITTEE ON THE RAILWAY RATES AND CHARGES PROVISIONAL ORDER BILLS.** Report; together with proceedings of the Committee, minutes of evidence and index. Lond., 1891. 2 v., 13 x 8, pap.
- 54 **GREAT BRITAIN—PARLIAMENT.** Report, from the Joint Select Committee of the House of Lords and the House of Commons, on the Channel Tunnel; together with the proceedings of the Committee, minutes of evidence and appendix. Lond., 1883. 47 + 574 pp., pl., 13 x 8, pap.
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- 41 **GREAT BRITAIN—RAILWAY DEPARTMENT.** General report to the Board of Trade upon the accidents that have occurred on the railways of the United Kingdom during the year; 1870, '94. Lond., 1871-95. 2 v., 13 x 8, pap.
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- 78 —Report of the officers to the Board of Trade; 1842. Lond., 1843. 1 v., il., pl., maps, 13 x 8, b. p.
- 13 —Report to the Lords of the Committee of Privy Council for Trade and Foreign Plantations, of the Proceedings of the Department; 1854-57. Note: For prior reports see Great Britain-Commissioners of Railways. Lond., 1855-58. 4 v., 13 x 9, pap.

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- 10 — Report to the Lords of the Committee of Privy Council for Trade, upon the accidents which have occurred on railways; 1855-58. Lond., 1856-59. 4 v., 13 x 8, pap.
- 38 — Reports of the Inspecting Officers, to the Lords of the Committee of Privy Council for Trade, upon four accidents which occurred on the Southeastern Ry., 1855. Lond., 1856. pp. 167-244, map, 13 x 9, pap.
- 40 — Returns of accidents and casualties, as reported to the Board of Trade by the several railway companies in the United Kingdom, during the year ending Dec. 31st; together with reports of the Inspecting Officers of the Railway Department, upon certain accidents which were inquired into; 1884, '94-98. Lond., 1885-99. 5 v., 13 x 8, pap.
- 37 — Return of the number and nature of the accidents and the injuries to life and limb which have occurred on all the railways open for traffic in England and Wales, Scotland and Ireland, respectively, from the 1st of July to the 31st of Dec.; 1855-56. Lond., 1856-57. 2 v., 13 x 9, pap.
- 42 — Returns of accidents and casualties as reported to the Board of Trade by the several railway companies in the United Kingdom, during the six months ending 30th June; together with reports of the Inspecting Officers of the Railway Department to the Board of Trade upon certain accidents which were inquired into; 1895-96. Lond., 1895-96. 2 v., 13 x 8, pap.
- 43 — Returns of accidents and casualties as reported to the Board of Trade by the several railway companies in the United Kingdom, during the three months ending 31st Mar., together with reports of the Inspecting Officers of the Railway Department to the Board of Trade upon certain accidents which were inquired into; 1895-96. Lond., 1895-96. 2 v., 13 x 8, pap.
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- 80 **GREAT BRITAIN—SELECT COMMITTEE ON RAILWAY ACCOUNTS.** Reports from the Select Committee of the House of Lords on audit of railway accounts; 1st-2d; 1849. no place, 1849. 16 + 439 pp., facsim., 13 x 8, b. p.
- 79 **GREAT BRITAIN—SELECT COMMITTEE ON RAILWAY ACTS ENACTMENTS** (1846). Reports; together with the minutes of evidence, appendix, and index; 1st-2d. no place, 1848. 1 v., pl., 13 x 8, 1/2 sh.
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- 50 **GREAT BRITAIN—SELECT COMMITTEE ON RAILWAYS.** Report; together with the Proceedings of the Committee, minutes of evidence, and appendix. no place, 1881. 2 v., 13 x 8, pap.
- 24 **GREAT BRITAIN—INDIA OFFICE.** Copies of all contracts or agreements entered into by the East India Co., or by the present Council of India, with any company formed for making railways, public roads, canals, works for irrigation, or other public works in India, by which contracts or agreements a rate of interest is guaranteed upon the capital of such companies already paid up, or hereafter to be paid up. Lond., 1859. 205 pp., 14 x 9, pap.
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- 11 — Report to the Secretary of State for India in Council, on Railways in India, by the Secretary, Railway Department, 1859-61. Lond., 1860-61. 2 v., 13 x 8, pap.
- 14 **INDIA—DIRECTOR GENERAL OF RAILWAYS.** Administration report on the railways in India; 1879-99. Calcutta, Simla, Roorkee, 1880-99. 23 v. in 36, 13 x 9, pap.
- 56 **ITALY—COMMISSIONE D'INCHIESTA SULL' ESERCIZIO DELLE FERROVIE ITALIANE.** Atti; presentati dal Ministro dei lavori pubblici, nella tornata del 31 Marzo, 1881. (Legislatura 14. Prima Sessione. 1880-81. Camera dei deputati., doc. 84.) Roma, 1881-84. 4 v., 12 x 9, pap.
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- 57 **ITALY—REGIO ISPETTORATO GENERALE DELLE STRADE FERRATE.** Relazione sull'esercizio e sulle costruzioni delle strade ferrate Italiane per gli anni 1885-90. Roma, 1889-92. 6 v., 12 x 9, pap.
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- 36 **SOUTH AUSTRALIA—RAILWAY COMMISSIONERS.** Annual report; 1889-97. Adelaide, 1889-97. 6 v., maps, 13 x 9, pap.
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- 82 **TASMANIA—LANDS AND WORKS DEPARTMENT.** Public works statement of the Minister of Lands and Works; 1887. Tasmania, 1888. 1 v., 13 x 8, pap.
- 81 —Report of Engineer-in-Chief, including reports of Engineer of Roads, and Government Architect; 1887. Tasmania, 1888. 1 v., 13 x 8, pap.
- 1 **UNITED STATES—AUDITOR OF RAILROAD ACCOUNTS.** Annual report to the Secretary of the Interior; 1878-80. Wash., 1878-80. 3 v., 9 x 6, cl., pap.
- 7 **UNITED STATES—COMMISSIONER OF RAILROADS.** Annual report, made to the Secretary of the Interior; 1881-82, '84. Wash., 1881-84. 3 v., 9 x 6, cl.
- 63 **UNITED STATES—DEPARTMENT OF THE INTERIOR.** Report of Board convened to determine on a standard for construction of the Pacific R. R., made to the Secretary of the Interior, Feb. 24th, 1866; with accompanying documents. Wash., 1866. 50 pp., 9 x 6, pap.
- 65 **UNITED STATES—DEPARTMENT OF WAR.** Report of the Secretary of War on the several Pacific R. R. explorations. Wash., 1855. 43 pp., 10 x 6, pap.
- 60 **UNITED STATES—HOUSE.** Report of the Select Committee, appointed under the resolution of Jan. 6th, 1873, to make inquiry in relation to the affairs of the Union Pacific R. R. Co., the Credit Mobilier of America, and other matters. (42d Cong., 3d Sess. House rep., 78.) Wash., 1873. 786 pp., 9 x 6, cl.
- 62 —Report of the Select Committee to investigate the alleged Credit Mobilier Bribery, Feb. 18th, 1873. (42d Cong., 3d Sess. House rep., 77.) Wash., 1873. 523 pp., 9 x 6, cl.
- 8 —Report of the Select Committee, to whom was referred a joint resolution to authorize the survey of certain routes for a canal or railroad between the Atlantic and Pacific Oceans; also the memorial of the General Assembly of the State of Arkansas for the establishment of a national road from the western frontier of Arkansas to California; also the petition of George Wilkes in relation to the construction of a railroad to the Pacific Ocean. no place, 1849. 678 + 1 pp., pl., maps, 9 x 6,  $\frac{3}{4}$  mor.
- 64 **UNITED STATES—(HOUSE) SELECT COMMITTEE ON PACIFIC RAILROAD.** Reports of the Majority and Minority of the Select Committee on the Pacific R. R. Wash., 1860. 72 pp., map, 10 x 6, pap.
- 6 **UNITED STATES—INTERSTATE COMMERCE COMMISSION.** Annual report; 1st-12th; 1887-98. Wash., 1887-99. 12 v., 9 x 6, cl.
- 59 —Preliminary report on the income account of railways in the United States for the year ending June 30th, 1897. Wash., 1898. 1 v., 9 x 6, pap.
- UNITED STATES—(SENATE) COMMITTEE ON COMMERCE.** Arguments for and against the Tehuantepec Ship-Ry. project. 1883. (See Cfa-19, p. 165.)
- 5 **UNITED STATES—(SENATE) SELECT COMMITTEE ON INTERSTATE COMMERCE.** Report; with appendix. Contents: v. 1, Report; v. 2, Testimony as to the regulation of Interstate Commerce by Congress. (49th Cong., 1st Sess. Senate, rep. No. 46.) Wash., 1886. 2 v., 9 x 6, cl.
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- 35 **AUSTRIA.** Note sur l'organisation actuelle des chemins de fer locaux en Autriche et sa modification projetée. E. A. Ziffer. Bruxelles, 1894. 30 pp., 10 x 7, pap.
- 4 **BALTIMORE & OHIO R. R.** Bibliography of the B. & O. R. R. Co.; 1327 to 1879. J. W. M. Lee. Lond., 1879. unpag., 9 x 7, pap.
- 9 —History and description of the B. & O. R. R.; with an appendix. Balt., 1853. 200 pp., map, por., facsim., 9 x 6, cl.
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- 20 **CENTRAL PACIFIC R. R.** Paper read before the Society of the Army of the Tennessee, Sept. 15th, 1888; together with comments thereon by William T. Sherman. G. M. Dodge. Note: History of the first Transcontinental Railroad. N. Y., 1888. 49 pp., 9 x 6, pap.
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- 38 **ESTRADA DE FERRO BAHIA E MINAS.** Memoria descriptiva sobre a Estrada de Ferro Bahia e Minas. Miguel de Teive e Argollo. Rio de Janeiro, 1883. 198 pp., map, tab., 9 x 6, ¼ sh.
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- FRANCE.** Étude historique et statistique sur les voies de communication de la France d'après les documents officiels. Felix Lucas. (Exposition Universelle à Vienne en 1873.) 1873. (See Ca-51.)
- 8 — Ueber die zur Entwicklung des französischen Eisenbahn-Netzes angewendeten Mittel und insbesondere die Verträge, betreffend die Staatsgarantie und die Theilung des Reinertragnisses, mit Beilagen; rev. and tr. by Wilhelm von Nördling. Léon Aucoc. ed. 2. Wien, 1875. 193 pp., map, 10 x 7, bds.
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- 50 **PANGBORN, J. G.** The world's railway: Historical, descriptive, illustrative. N. Y., 1894; colophon, 1896. 164 + 11 pp., il., por., 16 x 11, mor.
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- 16 **RITCHIE, ROBERT.** Railways; their rise, progress, and construction; with remarks on railway accidents, and proposals for their prevention. Lond., 1846. 444 pp., il., 7 x 4, cl.
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- 19 —A sketch of its history and prospective influence on the railway movement. 1850. 12 pp., 9 x 6, pap. no title-page.
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- 43 —Coloured views on the L. & M. Ry., with plates of the coaches, machines, etc., from drawings made on the spot; with descriptive particulars, serving as a guide to travellers on the railway. T. T. Bury. Lond., 1831. 8 pp., pl., 14 x 11,  $\frac{3}{4}$  cf.
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- 25 **MEXICAN CENTRAL RY.** History and general description. *Boston Post*. Bost., 1884. por., map, 30 x 22. newspaper slip.
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- 33 **NEW SOUTH WALES:** The railways and tramways of the colony. L. R. Nash. no place, 1896. 11 pp., tab., 10 x 6, pap.
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- 47 —Development of transportation systems in the United States: A description of the leading features of advancement, from the colonial era to the present time, in the water channels, roads, turnpikes, canals, railways, vessels, vehicles, cars and locomotives. J. L. Ringwalt. Phil., 1888. 398 pp., pl., 13 x 9, cl.
- 28 —History of the railroads and canals of the United States of America, exhibiting their progress, cost, revenues, expenditures and present condition. H. V. Poor. N. Y., 1860. 1 v. in 2, 9 x 6, ¾ mor.
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- 41 —Story of the railroad. Cy Warman. ("Story of the West" Series.) N. Y., 1898. 18 + 280 pp., il., map, 8 x 5, cl.
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# RAILROADS, STREET.

## RAILROADS, STREET—GENERAL.

Ba

- COOLEY, C. H.** Street railway transportation. 1895. (See Qc-11.15, pt. 1, p. 679.)
- PARSONS, W. B.** Report to the Board of Rapid Transit Railroad Commissioners, in and for the City of New York, on rapid transit in foreign cities. 1894. (See Bh-16.)
- VEREIN FÜR DIE FÖRDERUNG DES LOCAL- UND STRASSENBAHNWESENS.** Mittheilungen (monthly). (See Sd1-2.1.)
- 2 **ZIFFER, E. A.** General Versammlung des Internationalen Permanenten Strassenbahn-Vereines; 8th, 10th; 1894, '98. Wien, 1894-98. 3 v., 11 x 8, pap.
- 1 —Note sur la IX<sup>e</sup> Assemblée Générale de l'Union Internationale Permanente de Tramways, tenue à Stockholm du 26 au 29 Août, 1896. Bruxelles, 1897. 24 pp., 10 x 7, pap.

## RAILROADS, STREET—LOCATION.

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- AURORA & GENEVA RY. CO. vs. HARVEY et al.** Copy of the opinion rendered by the Supreme Court of Illinois, Feb. 17th, 1899. Note: Case relates to the question of the location of a trolley line over private property. 1899. (See Bf-23.)
- 32 **BOSTON.** Report on the subject of a railroad track on the marginal streets of the city, made to the Common Council. Committee on the Marginal Railroad. Bost., 1851. 29 pp., map, 9 x 6, pap.
- 34 **BROADWAY UNDERGROUND RY.** Collection of documents favorable to the "Underground Railway Bill." New York East Side Association and New York West Side Association. N. Y., 1871. 24 pp., 9 x 6, pap.
- 5 —Letter on the subject of the population of the City of New York, its density and the evils resulting therefrom; the overcrowded condition of the laboring portion of the community and of the poor, and the high sickness and death rates of the city, shown to be primarily due to a lack of cheap and rapid transit. J. I. Davenport. N. Y., 1884. 23 pp., 10 x 7, pap.
- Map of the City of New York; showing the main line, branches and connections of the Broadway Underground Railway. G. W. & C. B. Colton & Co., pub. no date. (See Qf-473.)
- 8 —Prospectus. 15 pp., pl., 8 x 5, pap. no title-page.
- 21 —Same. N. Y., 1876. 12 pp., 9 x 6, pap.
- 25 —Report in answer to a resolution relative to the Underground Railroad in Broadway, New York; transmitted to the Legislature, Feb. 2d, 1866. A. W. Craven. Albany, 1866. 11 pp., 9 x 6, pap.
- BROOKLYN, N. Y.** Map of the City of Brooklyn. Brooklyn & Union Elevated R.R. Co. 1889. (See Qf-132.)
- 56 **CENTRAL LONDON RY.** Prospectus of the C. L. Ry. Exploration Company, Limited. Lond., 1891. 3 pp., map, 10 x 8, pap. no title-page.
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- 4 **EASTON, ALEXANDER.** Practical treatise on street or horse-power railways; their location, construction and management; with general plans and rules for their organization and operation; together with examinations as to their comparative advantages over the omnibus system. Phil., 1859. 139 pp., pl., 9 x 6, cl.
- 12 **McALPINE, W. J., and E. L. VIELE.** The opinion of two eminent civil engineers on rapid transit. N. Y., 1876. 12 pp., 9 x 6, pap.
- MORAWITZ, MORITZ.** Strassen- und Eisenbahn-Curve: Formeln und Tabellen zum Behufe des Bogenaussteckens nach einer schnellen, in allen Fällen, namentlich im coupirten Terrain und bei Gebirgsbahnen praktisch anzuwendenden Methode. 1875. (See Ab-29.)

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- 42 **GILBERT ELEVATED R. R. CO.** Great speech on rapid transit. W. M. Evarts. Note: As Counsel for the 6th Ave. R. R. N. Y., 1876. 40 pp., 9 x 6, pap.
- LONDON, ENG.** Improved "District Railway" map of London. 1890. (See Qf-472.)
- 60 —Electric railway bills in Parliament: Report. Local Government and Taxation Committee. Note: Report to the Common Council on the route, traffic capacity, etc., of the proposed underground railways. Lond., 1892. 19 pp., 13 x 8, pap.
- 40 **LOS ANGELES.** Elektrische Strassenbahn-Ueberführung in Los Angeles, Kalifornien. S. G. Artingstall and E. A. Werner. Wien, no date. unpagcd, pl., 17 x 13, pap.
- 7 **MANHATTAN RY.** City improvements: Plans and proposals. N. Y., 1866. 87 pp., 9 x 6, pap.
- 19 —Report to the Board of Directors of the M. Ry. Co. on the various routes for proposed underground railways in the City of New York. A. P. Robinson. N. Y., 1867. 21 pp., 9 x 6, pap.
- METROPOLITAN DISTRICT RY. (LONDON).** M. D. Ry. and lines in connection therewith. 1868. (See Qf-489.)
- Smith's map of proposed metropolitan railways and improvements. Smith & Son, pub. 1866. (See Qf-474.)
- 55 **METROPOLITAN RY. (LONDON).** Diagram of gradients, June, 1866. Lond., 1866. pl., 31 x 21, pap.
- 54 —Notting Hill and Brompton Extension: Diagram of gradients. no place, 1868. pl., 13 x 7, pap.
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- 2 **METROPOLITAN TRANSIT R. R. (NEW YORK).** Suggestions in advocacy of the route, plans, construction and operation of the M. T. R. R. J. B. Swain. Albany, 1872. 47 pp., pl., map, 9 x 6, cl.
- 6 **NASSAU CABLE RY.** Letters to Seth Low, Mayor of Brooklyn, the President of the New York and Brooklyn Bridge, and the Brooklyn Board of Aldermen, relative to the proposed system of street railways, whereby the fare will be reduced to five cents from any part of Brooklyn to New York, *via* the Bridge. Brooklyn, 1884. 22 pp., 10 x 7, pap. no title-page.
- 1 **NEW ORLEANS ELEVATED RY.** Prospectus. New Orleans, 1884. 27 pp., 5 pl., map, 10 x 7, cl.
- NEW YORK ARCADE R. R.** Evidence, submitted to the Senate Railroad Committee, as to the practicability of the arcade plan; in rebuttal. W. J. McAlpine and others. no place, 1868. 14 pp., 9 x 6, b. p. Ab-7, p. 647.
- 26 —N. Y. A. R. R. as projected, compared with the underground railways of London: Report to the Broadway Underground Ry. Co. W. J. McAlpine. no place, 1884. 24 + 16 pp., pl., 10 x 7, b. p.
- 13 —The Press and the Arcade Underground Ry. 22 pp., 9 x 6, pap. no title-page.
- 43 —Rapid transit: An address on the subject of loss in population and loss in value of real estate in New York City and Westchester County, arising from the want of accommodation for trade and travel between the limits of Manhattan Island. H. C. Gardiner. Note: Favors Arcade Underground Ry. N. Y., 1870. 8 + 5 pp., il., 10 x 7, b. p.
- 43 —Report of the Board of Engineers on the subject of rapid transit through New York. G. B. McClellan and others. Note: Recommending the Arcade Underground Ry. N. Y., 1870. 6 pp., il., 11 x 7, b. p.
- 38 —Report upon the Arcade Underground Ry. E. L. Viele. no place, no date. 28 pp., pl., map, 11 x 7, cl.
- 31 **NEW YORK CABLE RY.** Argument on behalf of the N. Y. C. Ry. Co. before the Mayor of New York; reported by E. H. Carpenter, 9th Mar., 1866. Robert Sewell. no place, no date. 20 pp., 10 x 7, pap.
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- 41 —Plans for an elevated railway in the City of New York, 1874. C. W. Hunt. N. Y., 1874. 5 pp., pl., 11 x 8, pap. manuscript.
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- 10 —Proceedings before the Committee in relation to the depreciation of property and the injury of business by the construction of steam elevated railways in the streets and avenues of the City of New York. New York—(Assembly) Committee on Railroads. N. Y., 1877. 34 pp., pl., 9 x 6, pap.  
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- 37 —Real estate on the business line of Broadway, as affected by a lack of rapid transit: The remarkable fulfillment of prophecies made by the *New York Tribune* in 1872: A letter addressed to the property owners of the City of New York. J. F. Mines. N. Y., 1884. 18 pp., 10 x 7, pap.  
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- 52 —Report of the Civil and Topographical Engineer and the Landscape Architect, accompanying a plan for local steam transit routes in the Twenty-third and Twenty-fourth Wards. New York City-Department of Public Parks. (doc. No. 75.) N. Y., 1877. 10 pp., pl., 9 x 6, pap.
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- 27 —Report upon the contemplated Metropolitan Railroad of the City of New York. A. P. Robinson. N. Y., 1865. 40 pp., 6 pl., maps, 9 x 6, pap.
- 22 —Routes and constructions for rapid transit in the City of New York. W. E. Worthen. no place, no date. 8 pp., 10 x 6, pap.  
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- 24 **NEW YORK CITY CENTRAL UNDERGROUND RY.** Argument made in behalf of the N. Y. C. C. U. Ry. Co. before Governor Hoffman, in opposition to the Beach Pneumatic Bill. G. T. Curtis. no place, 1872. 23 pp., 9 x 6, pap.
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- 28 —Prospectus. no place, 1855. unpagcd, pl., 13 x 10, pap.
- 16 **NEW YORK RAPID TRANSIT MEETINGS.** Meeting at Chickering Hall, Tuesday evening, June 5th, 1877. no place, no date. 64 pp., 9 x 6, pap.
- 15 —Meetings held at Lion Park; Association Hall, Harlem; Chickering Hall; Parepa Hall, Yorkville; and Trinity Building, June, 1877. no place, no date. 120 pp., 9 x 6, pap.
- 35 **PARIS.** Note sur la Ligne Métropolitaine Centrale de Paris, proposée par la Compagnie des Etablissements Eiffel. Paris, 1890. 23 pp., map, 9 x 6, pap.
- 29 **PHILADELPHIA.** Proposed system of underground railroad communication for Philadelphia, also, floating and tidal docks, with surface and elevated rail connections, quays, embankments, etc. S. C. Gant. Phil., 1881. 20 pp., pl., map, 9 x 6, pap.
- 46 —Rapid transit. L. M. Haupt. 16 pp., map, 9 x 6, pap. no title-page.
- 42 **SIXTH AVENUE R. R.** Great Speech on rapid transit. W. M. Evarts. Note: As counsel for the Sixth Ave. R. R. Co. N. Y., 1876. 40 pp., 9 x 6, pap.
- 30 **SHANGHAI.** Notes on tramways, for the information of the ratepayers; in connection with L. F. J. Hunt's scheme for electric tramways in Shanghai. Charles Mayne. Shanghai, 1895. 8 pp., 13 x 8, pap.
- 65 **SYDNEY, N. S. W.** Report of the Parliamentary Standing Committee on Public Works; together with minutes of evidence, appendices and plans, relating to the proposed cable tramway from King Street, via William Street, to Ocean Street. Sydney, 1891. 231 + 76 pp., pl., map, 13 x 8, pap.
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- 44 **BOSTON.** Rapid transit; need of some plan for Boston; the Riley system. *Boston Herald.* Bost., 1889. 1 p., il., 26 x 20, pap. newspaper slip.
- 37 **BROADWAY PNEUMATIC UNDERGROUND RY.** Illustrated description of the B. P. U. Ry.; with a full description of the atmospheric machinery and the great tunneling machine. N. Y., 1870. 19 pp., 11 x 7, pap.
- 51 **BROADWAY UNDERGROUND RY.** Route and plan of construction; with reports of eminent engineers, and construction drawings from London underground railways. N. Y., 1872. 15 pp., il., 8 pl., 17 x 12, cl.
- 28 **DOOKIE & KATAMATITE TRAMWAY.** Notes on the D. & K. Tramway. T. W. Fowler. Melbourne, no date. 13 pp., map, tab., 9 x 6, pap.
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- 8 **BARNUM, E. M.** Plan for an elevated railway, parcel express and pneumatic dispatch. no place, no date. 21 pp., 9 x 6, pap.
- 14 **CHURCH, J. B.** Plans for a mid-avenue elevated and surface railroad. N. Y., 1873. 4 pp., pl., 9 x 6, pap.
- 9 **DURFEE, Z. S.** Plan for rapid transit through cities. no place, no date. pl., 5 x 7, pap.
- EASTON, ALEXANDER.** Practical treatise on street or horse-power railways; their location, construction and management; with general plans and rules for their organization and operation; together with examinations as to their comparative advantages over the omnibus system. 1859. (See Bb-4.)
- 42 **FAIRCHILD, C. B.** Street railways: Their construction, operation and maintenance: A practical handbook for street railway men. N. Y., 1892. 486 pp., il., 12 x 9, cl.
- 15 **HAUSSKNECHT, G. S.** Prospectus for rapid transit for cities and country. Brooklyn, no date. 1 p., 14 x 8, pap.
- 50 **HERING, CARL, comp.** Recent progress in electric railways; being a summary of current periodical literature relating to electric railway construction, operation, systems, machinery, appliances, etc. N. Y., 1897. 389 pp., il., 7 x 5, cl.
- 19 **MACLAY and DAVIES.** Report on Job Johnson's tubular girder elevated railroad. N. Y., 1878. 21 pp., 6 pl., 9 x 6, pap.
- 5 **MONTGOMERY, RICHARD.** Plan for an elevated railroad. N. Y., 1867. 9 pp., pl., 9 x 6, pap.
- 6 **MORGAN, R. P., Jr.** Letter to the Rapid Transit Commissioners for the City of New York. no place, 1875. 4 pp., 9 x 6, pap. no title-page.
- 1 —Report on gothic arch elevated city railway. N. Y., 1872. 16 pp., pl., 9 x 6, pap.
- MÜLLER, FRIEDRICH.** Grundzüge des Kleinbahnwesens. 1895. (See Be-29.)
- PARSONS, W. B.** Report on rapid transit in foreign cities. 1894. (See Bh-16.)
- SÉRAFON, F.** Étude sur les chemins de fer, les tramways et les moyens de transport en commun à Paris et à Londres, suivie d'une notice sur la construction et l'exploitation des tramways. 1872. (See Be-36.)
- 38 **SMITH, J. B.** Treatise upon cable or rope traction as applied to the workings of street and other railways. Lond., 1887. 194 pp., il., pl., map, 10 x 8, cl.
- 3 **SPEER, ALFRED.** Speer's endless railway train; solving the problem of rapid transit. no place, no date. 8 pp., 10 x 7, pap.
- 2 —Treatise on city travel; with a true solution of rapid transit. Speer's plan, of an endless train, for rapid through transit of passengers, without stops; and rapid local accommodation, combined in one train. Passaic, N. J., 1875. 28 + 6 pp., pl., 9 x 6, pap.
- 17 **VANDENBURGH, O.** Complete failure of pneumatic conveyance in England. N. Y., 1870. 6 pp., 10 x 7, pap.
- 7 **VIELE, E. L.** Letter on Robert A. Chesebrough's system of locomotion for elevated railroads; patented July 14th, 1868. N. Y., 1868. 22 pp., pl., 9 x 6, pap.
- 33 **WILLIAMS, C.** Williams' rapid transit viaduct, or, suspended track-way for rapid transit railways: The solution of the problem of rapid transit for New York and other cities. A new adaptation of the suspension principle, which is rigid and self anchoring, and avoids the necessity of the massive towers and the fixed and expensive ground anchorage of suspension bridges, as now constructed. N. Y., 1873. 29 pp., 11 pl., 11 x 7, cl.
- 41 **ZIFFER, E. A.** Annexe au rapport sur la question suivante: "Dans le cas de l'adoption d'un écartement de voie réduit, quels sont à votre avis ou d'après votre expérience, les avantages ou les inconvénients relatifs des trois écartements réduits: les plus usités: 1 m. 00, 0 m. 75 et 0 m. 60? (Union Internationale Permanente de Tramways. Septième Assemblée Générale. 1892.) no place, no date. 12 pp., 13 x 8, pap.

**Bc—(Continued).****GENERAL—(Continued).**

- 30 — Bericht über nachstehende Frage: "Welches sind, bei Annahme der Schmalspur für eine Bahnlinie, nach Ihren Erfahrungen oder nach Ihrer ansicht, die bezüglichen Vortheile oder Nachtheile der 3 gebräuchlichsten Schmalspuren, nämlich: 1m.00, 0m.75, 0m.60?" (Internationaler Permanenter Strassenbahn-Verein. Siebente General-Versammlung. 1892). no place, no date. 13 pp., tab., 13 x 8, pap.
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- 27 **GILBERT ELEVATED RY.** A collection of facts, in reply to the pamphlet entitled "The opinion of two eminent civil engineers on rapid transit." T. C. Clarke and others. N. Y., 1877. 30 pp., 10 x 7, pap.
- 39 — Plans and specifications; from Worth Street through College Place, Murray Street, Little Church and New Church to Morris Street, about 5 000 ft. 4 pp., 14 x 9, b. p. no title-page.
- 39 — Plans and specifications; 6th Ave. from 42d Street to 52d Street, about 2 700 ft. 2 pp., 14 x 9, b. p. no title-page.
- 39 — Plans and specifications; 6th Ave. from 52d to 59th Street, about 1 800 ft. 3 pp., 14 x 9, b. p. no title-page.
- GLASGOW DISTRICT SUBWAY.** Its construction, plant and working. A. H. Morton. 1897 (?) (See Bd-13.)
- 21 **LONDON.** La nuova ferrovia elettrica sotterranea di Londra. Luigi Luiggi. Roma, 1891. 20 pp., pl., 9 x 6, pap.
- 55 **MANHATTAN ELEVATED R. R.** Specifications for the building of foundation piers. no place, 1881. unpagcd, 14 x 8, pap. no title-page. manuscript.
- 54 — Specifications for tracklaying. no place, 1880. 5 pp., 14 x 8, pap. no title-page. manuscript.
- 36 — Typical crossing used on Second Avenue line, M. E. R. R. pl., 10 x 15, pap. no title-page.
- 47 **METROPOLITAN RY. (LONDON).** Specification of the works necessary for constructing the Tower Hill Extension. Lond., 1865. 14 pp., 13 x 8, pap.
- 16 **NEW YORK ARCADE R. R.** Evidence before the Senate Railroad Committee, on the Arcade Underground Railway. 1868. 19 pp., 11 x 7, pap. no title-page.
- 10 — Evidence, submitted to the Senate Railroad Committee, as to the practicability of the Arcade plan; in rebuttal. W. J. McAlpine and others. 14 pp., 9 x 6, pap. no title-page.
- 13 — Plan proposed for building the Arcade, without interrupting the travel on Broadway. W. J. McAlpine and others. 6 pp., 9 x 6, pap. no title-page.
- Report on the designs and plans of the N. Y. A. R. R., by expert engineers. S. H. Sweet and others. no place, 1886. 13 pp., pl., 10 x 7, b. p. Bb-26, p. 37.
- 63 **NEW YORK CITY.** Contract for construction and operation of Rapid Transit R. R. New York—Board of Rapid Transit Railroad Commissioners. no place, 1899. 2 v., 10 x 8 (atlas 17 x 26) pap.
- 18 — Letter on rapid transit for New York City, Feb., 1875. A. W. W. Evans. N. Y., 1875. 18 pp., 9 x 6, pap.
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- 20 — Rapid transit in New York: Open letter to Abram S. Hewitt on the various motive power systems proposed for the operation of rapid transit lines in the City of New York; also a reprint of discussion in the *Street Railway Gazette* and *Street Railway Review* of Chicago, on the relative cost of installation and operation of lines operated by steam, electricity and compressed air. Herman Haupt. no place, 1894. 42 pp., 9 x 6, pap.
- 31 — Rapid transit: The best means of rapid transit for passengers in and about the City of New York: A communication to a Special Committee of the American Society of Civil Engineers. R. P. Morgan, Jr. N. Y., 1874. 28 + 1 pp., pl., 9 x 6, pap.
- 12 — Report of the Commissioner of Public Works on the subject of rapid transit, transmitted by the Mayor to the Board of Aldermen. Allan Campbell. N. Y., 1877. 24 pp., 9 x 6, pap.
- 45 — Routes and general plan of the Board of Rapid Transit Railroad Commissioners; adopted by resolution, Feb. 4th and Apr. 1st, 1897. pl., 10 x 14, pap. no title-page.
- 48 — Specifications for the construction of an elevated railway. New York-Rapid Transit Commissioners. N. Y., 1875. various pagings, 14 x 9, pap. no title-page.
- Terms of sale and specifications for the construction of a rapid transit railroad in the City of New York. New York-Rapid Transit Commissioners. 1892. (See Bf-15.)



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- 4 **NEW YORK CITY CENTRAL UNDERGROUND RY.** Engineers' report to the N. Y. C. C. U. Ry. Co. A. W. W. Evans and others. N. Y., 1869. 22 pp., 9 x 6, pap.
- 49 **NEW YORK ELEVATED R. R.** Letters and Engineers' reports on plans, etc. Milton Courtright. N. Y., 1877. 10 pp., 14 x 8, pap.
- 57 —Plans and elevation of the railroad on Third Avenue and the Bowery. no place, no date. pl., 33 x 13, pap. Scale,  $\frac{1}{4}$  in. to 1 ft.  
—Report on the New York elevated roads. E. Sweet, Jr. 1880. (See Be-2.)
- 39 —Report, submitted to the President and Directors of the N. Y. E. R. R. Co., giving estimates in detail of the cost of different portions of the work. Milton Courtright. N. Y., 1877. 4 pp., 14 x 8, b. p. no title-page.
- 39 —Specifications for the construction of the railroad from the intersection of Whitehall with Front Street to, or near, the intersection of the Bowery with Third Avenue. N. Y., 1877. 6 pp., 14 x 8, b. p.
- 39 —Specifications for track laying. 8 pp., 12 x 8, b. p. no title-page.
- 39 —Specifications for work and materials (excepting castings and foundation bolts) required in the construction of about 250 foundations for the columns of the N. Y. E. R. R. on 3d Ave., between 61st Street and 51st Street. N. Y., 1878. 8 pp., 12 x 8, b. p.
- 34 **NEW YORK, FORDHAM & BRONX RY.** Specifications for an elevated railroad running from the Harlem River to the southerly line of the St. John's College lands at Fordham. New York-Board of Rapid Transit Commissioners. 11 pp., 9 x 6, pap. no title-page.
- 56 **NORTHWESTERN ELEVATED R. R.** Report on tests of paint. S. M. Rowe. Note: Part of a discussion on the designing and construction of elevated railroads. (See *Transactions*, Am. Soc. C. E., v. xxxvii, p. 442.) Chic., 1896. 8 pp., 12 x 9, pap.
- 32 **PHILADELPHIA.** Design for an elevated railroad in Philadelphia. sheet, 15 x 45, blue print. no title-page.
- 22 **SUBURBAN RAPID TRANSIT CO.** Contract for construction of column foundations north of the Harlem River. no place, 1884. 12 pp., 10 x 7, pap.
- 35 —Contract for construction of passenger stations and stairways of the Third Avenue line of the S. R. T. Co. New Jersey Ry. Construction Co. no place, 1887. 31 pp., 10 x 7, pap.
- 24 —Contract for construction of the piers and foundations of the Third Avenue line of the S. R. T. Co. New Jersey Ry. Construction Co. no place, 1886. 19 pp., 10 x 7, pap.
- 25 —Contract for the construction of the iron structures of the Third Avenue line of the S. R. T. Co. New Jersey Ry. Construction Co. no place, 1886. 14 pp., 10 x 7, pap.
- 26 —Specifications for cast-iron bases and wheel-guards for the Third Avenue line of the S. R. T. Co. New Jersey Ry. Construction Co. no place, 1886. un-paged, 10 x 7, pap.
- 64 —Structure between Harlem River and Southern Boulevard, column foundation on made ground. no place, 1883. pl., 22 x 18, pap. no title-page.
- SYDNEY, N. S. W.** Report; together with minutes of evidence, appendices and plans, relating to the proposed cable tramway from King Street, *via* William Street, to Ocean Street. New South Wales-Parliamentary Standing Committee on Public Works. 1891. (See Bb-65.)  
—Report; together with minutes of evidence, appendices and plans, relating to the proposed cable tramway through George, Pitt and Harris Streets. New South Wales-Parliamentary Standing Committee on Public Works. 1891. (See Bb-64.)
- 43 **THIRD AVENUE ELEVATED R. R.** Plans and elevation of the 3d Ave. E. R. R. no place, no date. 5 pl., various sizes, pap.
- VIENNA.** Studie über die Wiener Stadtbahnen mit Beziehung auf die Entwicklung der Stadt Wien. Wilhelm Ritter von Flattich and Wilhelm von Prangen. 1883. (See Be-31.)

## RAILROADS, STREET—EQUIPMENT.

## Bd

- 27 **CHEMIN DE FER METROPOLITAIN DE PARIS.** De la traction du Métropolitain; divers documents à consulter. Note: Various articles and letters discussing the use of locomotives without fire on the street railroads of Paris. Paris, 1890. 21 pp., 9 x 6, pap.
- 7 —Traction à vapeur sans feu, système Francq et Lamm. Dunkerque, 1886. pl., 15 x 22, pap.
- 28 —Traction; locomotives à vapeur système funiculaire, moteurs électriques, machines à air comprimé, locomotives à vapeur sans foyer. Léon Francq. Paris, 1883. 24 pp., 9 x 6, pap.

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- 16 **AMORETTI, P.** Rapport sur la question des traversées de voies; établissement; exploitation. (Union Internationale Permanente de Tramways. Huitième Assemblée Générale. 1894.) no place, no date. 6 pp., 13 x 8, pap.
- 20 **BAILLOT, R.** Rapport sur la question suivante: "Quelle est la composition normale de la ration de vos chevaux?" (Union Internationale Permanente de Tramways. Huitième Assemblée Générale. 1894.) no place, no date. 5 pp., 13 x 8, pap.
- 11 **BOLLER, A. P., and others.** Elevated roads: Report of able experts on their strength and safety. Note: *New York Mail and Express*, Mar. 21st, 1885, Supplement No. 2. N. Y., 1885. sheet, 27 x 20, pap.
- 12 **BRYSON, ANDREW, Jr.** Return of power in electric and cable traction. N. Y., 1889. 18 pp., tab., 9 x 6, pap.
- 2 **CHESEBROUGH, R. A.** System of locomotion for elevated railways; patented July 14th, 1868. N. Y., 1871. 23 pp., pl., 9 x 6, pap.
- 8 **COHEN, MENDES.** Report on car-fenders suitable for use on street railways: made to a Commission in relation to car-fenders for street cars, in the City of Baltimore. Balt., 1894. 20 pp., 9 x 6, pap.
- 31 **DAVIS, C. H., and W. G. HOWELLS.** Third-rail electric traction. N. Y., 1898. 17 pp., 121 pl., 10 x 7, pap.
- DE LA VALEUR THEORIQUE ET PRATIQUE DES MOTEURS À AIR COMPRIMÉ** d'après le jugement des personnalités scientifiques corroboré par les résultats d'application. no date. (See Ge-7.)
- 15 **DRAEGER, R.** Rapport sur la question suivante: "Avez-vous fait l'essai de la ferrure à cordes?" (Union Internationale Permanente de Tramways. Huitième Assemblée Générale. 1894.) no place, no date. 3 pp., 13 x 8, pap.
- FAIRCHILD, C. B.** Street railways: Their construction, operation and maintenance: A practical handbook for street railway men. 1892. (See Bc-42.)
- 22 **FISCHER-DICK, JOSEPH.** Rapport sur la question suivante: "Décrivez, avec plans ou croquis à l'appui, les systèmes de voies métalliques que vous avez expérimentés en indiquant la durée de votre expérience." (Union Internationale Permanente de Tramways. Huitième Assemblée Générale. 1894.) no place, no date. 4 pp., 13 x 8, pap.
- 30 **FRANCO, LÉON.** Mémoire présenté aux Membres du Jury de la Classe 61, Exposition Universelle de 1889. Note: Relates to the Lamm and Francq system of locomotives without fire. Paris, 1889. 10 pp., 11 x 9, pap. no title-page.
- 24 — Sur la traction mécanique dans Paris. Paris, 1897. 14 pp., 11 x 7, pap.
- 5 — Traction mécanique des tramways. (Association Française pour l'Avancement des Sciences. Congrès de Bordeaux. 1895.) Paris, 1895. 10 pp., 9 x 6, pap.
- 10 **GIBBON DOUBLE GIRDER LAP-JOINT SYSTEM OF STREET RAILWAY TRACKS.** N. Y., 1890. 30 + 1 pp., il., 11 x 8, pap.
- HAMMER, W. J.** Transportation of a busy people. 1899. (See Be-35.)
- HERING, CARL, comp.** Recent progress in electric railways; being a summary of current periodical literature relating to electric railway construction, operation, systems, machinery, appliances, etc. 1897. (See Bc-50.)
- HAGER, L. P., ed.** History of the West End Street Ry.; in which is included sketches of the early street railways of Boston; consolidation of the various lines; foreign street railways; the Berlin Viaduct; anecdotes, etc.; together with speeches by Henry M. Whitney and others; also expert testimony as to the safety of electric currents. 1892. (See Bj-1.)
- 19 **HAMELINK, S.** Rapport sur la question suivante: "Avez-vous fait des expériences de chauffage de vos voitures et quels en ont été les résultats?" (Union Internationale Permanente de Tramways. Huitième Assemblée Générale. 1894.) no place, no date. 4 pp., 13 x 8, pap.
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- HOSPITALIER, E., A. FICHET and LÉON JOUSSELIN.** Rapport sur les accumulateurs Faure-Sellon-Volckmar. 1883. (See Hd-33.)
- 9 **LAVOINNE, E.** Notice sur les principaux systèmes de locomotives sans feu. Paris, no date. pp. 261-309, pl., 9 x 6, pap. no title-page.
- 6 **MARÉCHAL, HENRI.** Tramways électriques. Paris, 1895. 39 pp., il., 9 x 6, pap.
- 26 **MARGUTTI, CARLO.** Étude pour l'application de la vapeur surchauffée et emmagasinée à la propulsion des voitures automotrices de tramways. Milano, no date. 4 pp., il., 14 x 10, pap.

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- MÉKARSKI, L.** Discussion sur les chemins de fer métropolitains: Observations sur la traction par l'air comprimé et par l'eau surchauffée. 1882. (See Ge-4.)
- MONNIER, D., and E. GUITTON.** Étude sur l'application des accumulateurs Faure-Sellon-Voickmar à l'éclairage électrique par incandescence et à la traction des tramcars: Extrait. 1883. (See Hb-29.)
- 21 **NEUFIELD.** Rapport sur la question suivante: "Quels sont les moyens de graissage employés pour les locomotives et pour les voitures?" (Union Internationale Permanente de Tramways. Huitième Assemblée Générale. 1894.) no place, no date. 6 pp., tab., 13 x 8, pap.
- 25 **POILLON, L.** Les locomotives sans foyer: leur application aux tramways Mexicains. Paris, no date. 16 pp., 7 x 4, pap.
- SÉRAFON, F.** Étude sur les chemins de fer, les tramways et les moyens de transport en commun à Paris et à Londres, suivie d'une notice sur la construction et l'exploitation des tramways. 1872. (See Be-36.)
- SMITH, J. B.** Treatise upon cable or rope traction as applied to the workings of street and other railways. 1887. (See Be-38.)
- SOCIÉTÉ GÉNÉRALE DES MOTEURS À AIR COMPRIMÉ.** Appareils exposés: Exposition Universelle de 1878. (Système L. Mékarski.) 1878. (See Ge-6.)
- Machines à air comprimé pour l'exploitation mécanique des tramways: Exposition Universelle de 1878. 1878. (See Ge-4.)
- Renseignements économiques sur l'emploi des locomotives à air comprimé pour la traction des tramways et des chemins de fer souterrains. 1878. (See Ge-2.)
- 4 **SOCIÉTÉ INDO-NÉERLANDAISE DE TRAMWAYS.** Extrait du rapport présenté à l'Assemblée Générale des Actionnaires: Traction au moyen des locomotives à vapeur sans feu; système Lamm et Francq. Paris, 1888. 7 pp., pl., 10 x 7, pap.
- 32 **STREET RAILWAY JOURNAL.** Siemens and Halske electric railway conduit. no place, 1892. unpagéd, il., 10 x 7, pap. no title-page.
- 18 **VLOTEN, P. VAN.** Rapport sur les principales installations de traction électrique fonctionnant en Europe. (Union Internationale Permanente de Tramways. Huitième Assemblée Générale. 1894.) no place, no date. 41 pp., tab., 13 x 8, pap.
- 23 **ZIFFER, E. A.** Rapport sur la question suivante: "Avez-vous des communications nouvelles à faire sur l'application des moteurs mécaniques à la traction des tramways?" (Union Internationale Permanente de Tramways. Neuvième Assemblée Générale. 1896.) no place, no date. 41 pp., 13 x 8, pap.
- 17 —Rapport sur les divers moteurs mécaniques employés pour les tramways et les chemins de fer secondaires. (Union Internationale Permanente de Tramways. Huitième Assemblée Générale. 1894.) no place, no date. 45 pp., 13 x 8, pap.
- 44 **GILBERT ELEVATED R. R.** General drawings at curves, with diagram of strains, drawings of details, etc. N. Y., no date. 14 sheets, 27 x 42, pap.
- 13 **GLASGOW DISTRICT SUBWAY:** Its construction, plant and working. A. H. Morton. Glasgow, 1897 (?) 43 pp., por., 24 pl., 10 x 12, cl.
- NANTES, FRANCE.** Extraits des deliberations du Conseil Municipal, Ville de Nantes. Note: Documents relating to the use of compressed air on the street railroads of Nantes. 1880. (See Ge-1.)
- Les tramways à air comprimé de Nantes. (Système L. Mékarski.) Edmond Boca. no date. (See Ge-5.)
- NEW YORK & BROOKLYN BRIDGE.** The cable railway on the N. Y. & B. Bridge. Gabriel Leverich. 1888. (See Fg-25.)
- Cable Ry.: Profile of tracks. 1890. (See Fg-29.)
- Communication from the Chief Engineer, relative to the estimates of cost of elevated tracks and platforms, etc., at the termini of the bridge, Feb. 16th, 1882. 1882. (See Fg-42.)
- Extension of the cable-driving plant: Specifications for structural iron work. 1891. (See Fg-40.)
- Report of the Board of Experts on terminal facilities, Jan. 10th, 1891; report of the Committee on improved traffic facilities; and extracts from the Minutes of the Board of Trustees, Jan. 20th. 1891. 1891. (See Fg-36.)
- Reports on plans for the enlargement of traffic facilities. 1888. (See Fg-34.)
- Specifications for the extension of the cable-driving plant, exclusive of the steam engine and the friction clutches. 1891. (See Fg-33.)
- Specifications for the rope-driving machinery for operating the railway of the N. Y. & B. Bridge. 1882. (See Fg-79.)
- 43 **NEW YORK CITY.** Gothic arch elevated city railway. R. P. Morgan, Jr. no place, no date. sheet, 18 x 24, pap.



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- 3 **RAPID TRANSIT CABLE CO.** Cable traction systems of the R. T. C. Co. N. Y., 1889. 81 pp., pl., 9 x 6, cl.  
—The New York and Brooklyn Bridge; plans of the R. T. C. Co. for system and terminals. 1890. (See Fg-39\*)
- 29 **TRAMWAYS DU DÉPARTEMENT DU NORD, COMPAGNIE DES.** Mémoire aux Président et Membres du Jury de la Classe 61; Exposition Universelle de 1889. Note: Relates to the exhibition made by the Company. Paris, 1889. 11 pp., 11 x 9, pap. no title-page.
- UNITED STATES.** La traction électrique en Amérique. Marcel Delmas. 1899. (See Ha-22, p. 5.)
- 33 **WINNIPEG.** Report on storage battery and overhead wire systems of electric street railways for the City of Winnipeg. H. N. Ruttan. Winnipeg, 1891. 23 pp., 9 x 6, pap.

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- BALTIMORE, MD.** Report on rapid transit in foreign cities; by W. B. Parsons. New York City-Board of Rapid Transit Railroad Commissioners. 1894. (See Bh-16, p. 51.)
- BERLIN, GERMANY.** Report on rapid transit in foreign cities; by W. B. Parsons. New York City-Board of Rapid Transit Railroad Commissioners. 1894. (See Bh-16, p. 41.)
- 25 **BOSTON.** Die Bostoner Unterpfasterbahn. Friederich von Emperger. no place, no date. 8 pp., 13 x 10, pap.
- 21 **BROADWAY & SEVENTH AVENUE RY.** Reply to the argument of Roscoe Conkling before the Senate Committee on Railroads, in the Senate of New York, in the matter of the proposed repeal of the charter of the Broadway Surface Railroad Co. Robert Sewell. no place, no date. 27 pp., 9 x 6, pap.
- BROOKLYN ELEVATED R. R.** To the Trustees of the New York & Brooklyn Bridge in relation to the application of elevated railroads for permission to cross the bridge, May 9th, 1896: Reports of Council and Engineers, with answer of elevated companies, May 29th, 1896. 1896. (See Fg-41.)
- 34 **BRUSSELS.** Communication relative à l'excursion des membres de l'Union Internationale Permanente de Tramways à Blankenberghe, Ostende et Bruxelles en Septembre, 1897. E. A. Ziffer. Bruxelles, 1897. 15 pp., 13 x 8, pap.
- 28 **CABLE RY. CO.** Reply to the pamphlet issued by the Market Street Cable Co. Note: Relative to the case between the companies for an alleged infringement on letters patent of the United States, granted June, 1876, to Andrew S. Hallidie, and thereafter assigned to the C. Ry. Co. no place, 1884 (?) 20 pp., 10 x 7, pap.
- 11 **CHICAGO.** Proceedings of a public meeting of citizens: Report of Committee against the horse railway monopoly, with accompanying documents; speeches of Stevenson and Strevelle. Chic., 1865. 32 pp., 9 x 6, pap.  
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- EASTON, ALEXANDER.** Practical treatise on street or horse-power railways; their location, construction and management; with general plans and rules for their organization and operation; together with examinations as to their comparative advantages over the omnibus system. 1859. (See Bb-4.)
- FAIRCHILD, C. B.** Street railways: Their construction, operation and maintenance: A practical handbook for street railway men. 1892. (See Bc-42.)
- 24 **FITZGERALD, J. E.** Report on the transportation of passengers in and around the cities of Europe; made to the Rapid Transit Commission of the State of Massachusetts and the City of Boston, Oct. 16th, 1891. Bost., 1891. 56 pp., pl., maps, 9 x 6, pap.
- FOSTER, H. A.** Bookkeeping for electric street railways. 1896. (See Hc-12, p. 72.)
- FRANCO, LÉON.** Sur la traction mécanique dans Paris. 1897. (See Bd-24.)
- 35 **HAMMER, W. J.** Transportation of a busy people. pp. 1288-1295, 9 x 6, pap. no title-page.
- HAUPT, HERMAN.** Report on the applicability of compressed air as a motor for street engines. 1879. (See Be-33, p. 5.)
- HERING, CARL, comp.** Recent progress in electric railways; being a summary of current periodical literature relating to electric railway construction, operation, systems, machinery, appliances, etc. 1897. (See Bc-50.)
- 23 **HOWES, OSBORNE, Jr.** Report on the transportation of passengers in and around the cities of Europe; made to the Rapid Transit Commission of the State of Massachusetts, and the City of Boston. Nov. 10th, 1891. Bost., 1891. 68 pp., 9 x 6, pap.

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- 8 **IRON AGE.** Editorial: The question of rapid transit in cities. N. Y., 1874. newspaper slip.
- 27 **LINDHEIM, WILHELM von.** Strassenbahnen in Belgien, Deutschland, Grossbritannien und Irland, Frankreich, Italien, Oesterreich-Ungarn, den Niederlanden, Niederländisch-Indien, der Schweiz und den verschiedenen Staaten von Amerika; Statistisches und Finanzielles, unter besonderer Berücksichtigung der Wiener Verhältnisse. Wien, 1888. 62 pp., map, 12 x 9, pap.
- 32 **MĚKARSKI, L.** Observations sur la traction par l'air comprimé et par l'eau surchauffée. Paris, 1882. 6 pp., 10 x 6, pap.
- 29 **MÜLLER, FRIEDRICH.** Grundzüge des Kleinbahnwesens. Berlin, 1895. 583 pp., 9 x 6, pap.
- SCHÖLLER, ADOLPHE.** Les chemins de fer et les tramways: Construction, exploitation, traction. 1892. (See Ad-46.)
- UNITED STATES—CONSULS.** Local transportation and underground conduits in foreign cities. 1892. (See Zd-11, Consular reports, v. 38, No. 139.)
- 33 **ZIFFER, E. A.** Internationaler Permanenter Strassenbahn-Verein. Wiesbaden, 1893. pp. 125-165, 11 x 8, pap.
- 27 **GERMANY.** Strassenbahnen in Belgien, Deutschland, Grossbritannien und Irland, Frankreich, Italien, Oesterreich-Ungarn, den Niederlanden, Niederländisch-Indien, der Schweiz und den verschiedenen Staaten von Amerika; Statistisches und Finanzielles unter besonderer Berücksichtigung der Wiener Verhältnisse. Wilhelm von Lindheim. Wien, 1888. 62 pp., map, 12 x 9, pap.
- GLASGOW, SCOTLAND.** Report on rapid transit in foreign cities; by W. B. Parsons. New York City-Board of Rapid Transit Railroad Commissioners. 1894. (See Bh-16, p. 22.)
- 16 **GREAT BRITAIN.** Il servizio Merci sulle ferrovie Inglesi. Luigi Luiggi. Roma, 1888. 15 pp., pl., 9 x 6, pap.
- 27 — Strassenbahnen in Belgien, Deutschland, Grossbritannien und Irland, Frankreich, Italien, Oesterreich-Ungarn, den Niederlanden, Niederländisch-Indien, der Schweiz und den verschiedenen Staaten von Amerika; Statistisches und Finanzielles unter besonderer Berücksichtigung der Wiener Verhältnisse. Wilhelm von Lindheim. Wien, 1888. 62 pp., map, 12 x 9, pap.
- LIVERPOOL, ENG.** Report on rapid transit in foreign cities; by W. B. Parsons. New York City-Board of Rapid Transit Railroad Commissioners. 1894. (See Bh-16, p. 36.)
- 36 **LONDON, ENG.** Étude sur les chemins de fer, les tramways et les moyens de transport en commun à Paris et à Londres, suivie d'une notice sur la construction et l'exploitation des tramways. F. Sérafin. Paris, 1872. 110 + 1 pp., pl. in pocket, 9 x 6, cl.  
—Report on rapid transit in foreign cities; by W. B. Parsons. New York City-Board of Rapid Transit Railroad Commissioners. 1894. (See Bh-16.)
- 3 **METROPOLITAN DISTRICT RY. (LONDON).** District railway time-table; July, 1872, June, 1873. Lond., 1872-73. 2 v., 9 x 6, pap.
- METROPOLITAN RY. (LONDON).** Note sur le Metropolitan Railway à Londres. Oscar Dérôme and O. Boreux. Paris, 1867. 16 pp., pl., 9 x 6, b. p. Cb-233, p. 491.  
—What dividend will it really pay? An unexaggerated statement. Lond., 1868. 23 pp., 9 x 6, b. p. Aj-3, p. 291.
- 1 **NEVERSINK MOUNTAIN ELECTRIC R. R.** Test of the N. M. E. R. R. H. S. Hering and W. S. Aldrich. N. Y., 1892. 16 pp., il., 15 x 11, pap.
- NEW YORK & BROOKLYN BRIDGE.** Traffic capacity of the N. Y. & B. Bridge Ry. Gabriel Leverich. 1889. (See Fg-109.)
- NEW YORK ARCADE RY.** Official record of passenger traffic in New York, from 1853 to 1887, as related to growth of population. no place, 1887. unpag., 10 x 7, b. p. Ab-26, p. 33.
- 4 **NEW YORK CITY.** Another chapter on rapid transit. Note: Pictures illustrating the calamities predicted by the opponents of the construction of the elevated railroads in New York City. N. Y., no date. sheet, 12 x 9, pap.
- 7 —City steam transit: Address delivered before the West Side Association, Jan. 11th, 1871. S. E. Church. N. Y., 1873. 25 pp., 9 x 6, pap.  
—Contract for construction and operation of rapid transit railroad. New York City-Board of Rapid Transit Railroad Commissioners. 1899. (See Bc-63.)
- 5 —Les chemins de fer metropolitains à New York et dans les grandes cités Américaines. D. Banderali. Paris, 1886. 42 pp., pl., 10 x 7, pap.  
—Rapid transit and terminal freight facilities: Report of Committee appointed Sept. 3d, 1874, to investigate the best means of rapid transit and handling freight in and about the City of New York. American Society of Civil Engineers. no place, 1875. 81 pp., tab., 9 x 6, b. p. Cb-233, p. 755.

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- Report, of the State Engineer and Surveyor, on the elevated railways of New York City, made to the Senate. Silas Seymour. Note: Report upon the question, whether the income of the several elevated railroads of New York has paid ten per cent. upon the capital actually expended. 1883. (See Bi-2.)
- 10 **NEW YORK CITY CENTRAL UNDERGROUND RY.** Address to property owners; exposure of the knavery of the Managers of the N. Y. C. C. U. Ry. Co.; by a Director of the Company; elevated, underground and other proposed railways considered. N. Y., no date. 16 pp., 10 x 7, pap.
- 30 **NEW YORK DISTRICT RY.** Copy of petition circulated by the N. Y. D. Ry. Co. protesting against special legislation granting rights or privileges for the construction of railways in the City of New York. 1886. 1 p., il., 16 x 10, pap. no title-page.
- 26 **NEW YORK ELEVATED R. R.** Report of the Chief Engineer of the N. Y. E. R. R. Milton Courtright. Note: Report on how to increase the income and value of the property of the Company. no place, 1877. 22 pp., map, 9 x 6, pap.
- 2 —Report on the New York elevated roads. E. Sweet, Jr. Albany, 1880. 27 pp., 9 x 6, pap.
- NEW YORK STATE.** Proceedings of the Special Committee on Railroads, appointed under a resolution of the Assembly, to investigate alleged abuses in the management of railroads chartered by the State of New York. 1879. (See Ah-48.)
- 6 **PARIS, FRANCE.** Le Chemin de Fer Metropolitain de Paris. E. Deligny. Paris, 1884. 76 pp., map, 9 x 6, pap.
- 36 —Étude sur les chemins de fer, les tramways et les moyens de transport en commun à Paris et à Londres, suivie d'une notice sur la construction et l'exploitation des tramways. F. Sérafin. Paris, 1872. 110 + 1 pp., pl. in pocket, 9 x 6, cl.
- Report on rapid transit in foreign cities; by W. B. Parsons. New York City-Board of Rapid Transit Railroad Commissioners. 1894. (See Bh-16, p. 44.)
- 40 **UNITED STATES.** Annual Convention of the American Street Railway Association; 9th; 1890. *Electric Power*. N. Y., 1890. 10 pp., 12 x 9, pap.
- Directory of railway officials and Manual of American street railways; 1886-88, '91-94. H. V. and H. W. Poor. 1886-94. (See Aa-61.)
- 31 **VIENNA.** Studie über die Wiener Stadtbahnen mit Beziehung auf die Entwicklung der Stadt Wien. Wilhelm Ritter von Flattich and Wilhelm von Prangen. Wien, 1883. 26 pp., 11 pl., 13 x 10, pap.

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- 23 **AURORA & GENEVA RY. CO. vs. HARVEY et al.** Copy of the opinion rendered by the Supreme Court of Illinois, Feb. 17th, 1899. Note: Case relates to the question of the location of a trolley line over private property. no place, 1899. pp. 331-359, 9 x 6, pap. no title-page.
- 33 —In the Supreme Court, Dec. Term, 1898; appeal from Circuit Court, Kane County; Abstract of record by A. J. Hopkins, F. H. Thatcher, F. A. Dolph, Attorneys for Appellant. Aurora, Ill., 1898. 231 pp., 10 x 7, pap.
- 32 —In the Supreme Court of Illinois, Dec. Term, 1898; appeal from Circuit Court, Kane County: Reply, brief and argument for Appellant. Chic., 1898. 46 pp., 10 x 7, pap.
- 4 **BROADWAY UNDERGROUND RY.** Charter of the B. U. Ry. of 1873. New York-Legislature. N. Y., 1873. 11 pp., 9 x 6, pap.
- 3 —Charter of 1873-4; and supplementary charter passed May 20th, 1874. New York-Legislature. no place, no date. 13 + 4 pp., 8 x 5, pap.
- 7 —Copies of resolutions and letters relative to the B. U. Ry. New York City-Board of Aldermen and others. no place, 1873. 9 pp., 9 x 6, pap.
- 9 —Extracts from the argument in favor of the B. U. Ry., before the Joint Committee of the Senate and Assembly, Feb. 16th, 1872. Joseph Dixon. N. Y., 1872. 16 pp., 9 x 6, pap.
- 12 —Memorial to the Mayor, the Aldermen and the Commonalty of the City of New York. no place, 1874. 3 pp., 14 x 9, pap. no title-page.
- BROOKLYN CITY R. R.** Report of the Special Committee on Railroads of the Brooklyn Common Council; and bond of the B. C. R. R. Co. Brooklyn, 1854. 19 pp., 9 x 5, b. p. Af-5, p. 205.
- 11 **METROPOLITAN RY. (LONDON) and METROPOLITAN DISTRICT RY. (LONDON.)** Heads of agreement made the 29th day of June, 1871. no place, 1871. 2 pp., 17 x 10, pap. no title-page.
- 20 **NEW YORK CABLE RY.** Cable railways vs. horse railways for intramural transit, in the City of New York: Concluding argument in support of cable railways, before the Commissioners of the Supreme Court, General Term. C. P. Shaw. Note: Relative to the petition of the N. Y. C. Ry. Co. N. Y., 1885. 165 + 6 + 26 pp., 9 x 6, pap.



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- 21 — *vs.* The Mayor, etc., and others. Court of Appeals; in the matter of the petition of the Company: Brief for Appellant on motion for reargument. Albany, 1887. 52 + 28 pp., 10 x 7, pap.
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- 52 — Lakes and Gulf waterway as related to the Chicago sanitary problem; the general project of a waterway from Lake Michigan to the Gulf of Mexico, in respect to the Chicago terminus, physical features of the route, character of the project, its utility and the methods of its accomplishment: A preliminary report. Chic., 1890 (?) 15 + 92 + 34 pp., il., pl., maps, 11 x 8, pap.
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- 22 **ALLEGHENY RIVER.** Report and drawings of the survey of the Allegheny River. G. W. Hughes. (25th Cong., 2d Sess. House doc. No. 343.) Wash., 1838. 36 pp., maps, 9 x 6, pap.
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- 345 **ALLOWAY CREEK.** Specifications, etc., for dredging in Alloway Creek, N. J. U. S.-Corps of Engineers. Phil., 1899. 7 pp., 14 x 8, pap. no title-page.
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- 385 **APPOQUINIMINK RIVER.** Specifications, etc., for dredging in Appoquinimink, Smyrna and Murderkill Rivers, Del. U. S.-Corps of Engineers. Wilmington, 1899. 7 pp., 14 x 8, pap. no title-page.
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- 346 **BRANDYWINE RIVER.** Specifications, etc., for construction of jetty at mouth of the Brandywine, Del. U. S.-Corps of Engineers. Wilmington, 1899. 7 pp., 14 x 8, pap. no title-page.
- 307 **BRAZOS RIVER.** Specifications, etc., for improving mouth of Brazos River, Tex. U. S.-Corps of Engineers. Galveston, 1899. 9 pp., 14 x 8, pap. no title-page.
- 240 **BRONX RIVER.** Specifications, etc., for removing rock in Bronx River, N. Y. U. S.-Corps of Engineers. no place, 1899. unpag., 14 x 8, pap. no title-page.
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- 115 —Report to the Legislature of the State of California; 1880. California-State Engineer and Surveyor. Sacramento, 1880. 5 v. in 1, 9 x 6, b. p.
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- 373 **CHELSEA CREEK.** Specifications, etc., for dredging in Chelsea Creek, Mass. U. S.-Corps of Engineers. Bost., 1899. 3 pp., 14 x 8, pap. no title-page.
- 158 **CHEMUNG RIVER.** Report of a system of protection for the city of Corning, N. Y., from floods in the Chemung River. P. C. Ricketts. Troy, 1892. 13 pp., 9 x 6, pap.
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- 365 — Specifications, etc., for dredging and constructing docks in Chicago River, Ill. U. S.-Corps of Engineers. Chic., 1899. 9 pp., 14 x 8, pap. no title-page.
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- 56 —Letter on jetties at the passes of the Mississippi. Sir C. A. Hartley. Wash., 1875. 20 pp., 9 x 6, pap.
- 172 —Letter to Hon. Redfield Proctor, Secretary of War, U. S. A. C. P. Huntington. Note: Letter shows the necessity of disposing of the water-bar in the Lower Mississippi. no place, 1889. 11 pp., 7 pl., 13 x 8, pap.
- 195 —Letter to the Chairman of the Committee on Levees and Improvement of the Mississippi River, in relation to the proposed Mississippi River Commission. A. A. Humphreys. 1878. 7 pp., 9 x 6, pap. no title-page.
- 145 —Letter to the Mississippi River Commission, May, 1884. C. P. Huntington. N. Y., 1884. 8 pp., 14 x 9, pap.
- 422 —Letter to the Secretary of War, April 19th, 1877. J. B. Eads. Note: Requests that information about the South Pass of the Mississippi, obtained by the U. S. Corps of Engineers, be furnished to aid in executing the work on the improvement of the mouth of the Mississippi. St. Louis, 1877. 8 pp., 9 x 6, b. p.
- 422 —Letter to the Secretary of War, with appendices. J. B. Eads. Note: Relates to the improvement of the Mississippi. New Orleans, 1876. 36 pp., 9 x 6, b. p.
- 13 —Levees of Louisiana: Their conditions and requirements. B. M. Harrod. 1 p., 17 x 15, pap. no title-page.
- Levees of the Mississippi River. C. G. Forshey. N. Y., 1874. 18 pp., map, 9 x 6, b. p. Cf-2, p. 859.
- Lloyd's map of the Lower Mississippi River from St. Louis to the Gulf of Mexico; compiled from Government surveys in the Topographical Bureau, Washington, D. C. J. T. Lloyd, pub. 1862. (See Qf-485.)
- Map of the crevasses of the Mississippi River and the overflowed portions of Arkansas, Mississippi, and Louisiana; from notes furnished by H. B. Thompson, Secretary of the Board of State Engineers of Louisiana, and from investigations up to date. New Orleans Lithographing Co., pub. 1882. (See Qf-484.)
- 116 —Memorial relative to the organization of the "Mississippi River Improvement Commission." Thomas Doane and others. Charlestown, Mass., 1879. 2 pp., 10 x 8, pap. no title-page.
- 107 —Memorial relative to the proposed "Mississippi River Improvement Commission," to the Senate and House of Representatives of the United States, in Congress assembled. T. C. Clarke and others. no place, no date. unpag., 10 x 8, pap. no title-page.
- 99 —Minority report of the Mississippi River Commission, Apr., 1882. J. B. Eads. Wash., 1882. 21 pp., 9 x 6, pap.
- 19 —The Mississippi and its forty-four navigable tributaries: A descriptive, commercial and statistical review. A. D. Anderson. Wash., 1890. 38 pp., maps, 9 x 6, pap.
- 55 —Mississippi Jetties: Review of the report of the Board of U. S. Engineers appointed under the act of Congress approved June 19th, 1878. J. B. Eads. 18 pp., 9 x 6, b. p. no title-page.
- 152 —Mississippi River and what its proper utilization will accomplish for those who may avail themselves of advantages offered. J. M. Osborn. Toledo, 1881. 16 pp., 8 x 6, pap.
- Mississippi River from St. Louis to the sea; compiled and prepared from the official reports of recent surveys made by the United States Government, from the reports of State Engineers, and from other reliable sources. J. A. Ockerson and C. W. Stewart. 1892. (See Qf-509.)
- Mississippi River from the Passes to Grand Prairie, La. U. S.-Coast and Geodetic Survey. (Coast Chart No. 94.) 1879. (See Qf-486.)
- 30 —Mississippi River: Testimony of General Comstock and others, given before the Commerce Committee, U. S. Senate, May 13th and 14th, 1890. U. S.-(Senate) Committee on Commerce. Wash., 1890. 62 + 1 pp., 9 x 6, pap.
- 218 —Monograph upon reservoirs and their effects on the floods of the Mississippi System. J. A. Seddon. Wash., 1898. 26 pp., pl., 9 x 6, pap.
- 92 —Mouth of the Mississippi. J. B. Eads. no place, no date. 9 pp., map, 9 x 6, pap.



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- 422 — Mouth of the Mississippi: Canal and jetties compared. J. B. Eads. no place, no date. 19 pp., map, 9 x 6, b. p.
- Mouth of the Mississippi: Jetty system explained. J. B. Eads. St. Louis, 1874. 40 pp., maps, 9 x 6, b. p. Cf-2, p. 91.
- Mouths of the Mississippi: Correspondence, etc., 1874-75. J. B. Eads and others. Lond., 1875. 31 pp., map, 8 x 5, b. p. Cf-2, p. 499.
- Notes sur l'amélioration du Mississippi: Communication faite à la 4<sup>e</sup> Section. C. B. Comstock. (International Cong. on Inland Navigation, 5th.) Paris, 1892. 7 pp., 10 x 7, pap. Ca-5.65.
- 154 — Oscillations of Mississippi River and Lake Pontchartrain at New Orleans, from daily observations at noon during the year 1871. New Orleans-City Surveyor. New Orleans, 1872. pl., 16 x 22, pap.
- 31 — Physics and hydraulics of the Mississippi: Reply to criticisms made by Dr. Hagen, Director General of Public Works, Prussia. A. A. Humphreys. N. Y., 1878. 8 pp., 10 x 7, pap.
- 28 — Physics and hydraulics of the Mississippi River: Report of U. S. Levee Commission reviewed, St. Louis, Feb. 19th, 1876. J. B. Eads. New Orleans, 1876. 33 pp., 9 x 6, pap.
- 43 — Physics of the Gulf of Mexico and of its chief affluent, the Mississippi River. C. G. Forshey. Salem, 1878. 42 pp., 10 by 6, pap.
- 422 — Proceedings of the Convention on 13th, 14th and 15th days of May, 1873. St. Louis Congressional Convention. Note: Relates to the improvement of water transportation to the seaboard. St. Louis, 1873. 120 pp., 9 x 6, b. p.
- 437 — Profile of South Pass from East Point across the bar, showing progress of scour effected by the jetties at different periods of their construction. no place, no date. Horizontal scale about 200 ft. to 1 in.
- 84 — Profile of the Passes of the Mississippi; compiled from map. R. D. Dodge. no place, no date. sheet, 9 x 23, pap.
- Project of a ship canal between the Mississippi River and the Gulf of Mexico. R. Montaigne. 1861. (See Cfb-26.)
- 34 — Protection of alluvial lands and the improvement of the Mississippi River: Address before the New Orleans Cotton Exchange, Feb. 15th, 1878. J. B. Eads. 1 p., 15 x 8, pap. no title-page.
- 144 — Record of a Convention for the Improvement of the Mississippi River and its tributaries, held at the City of Quincy, Ill., Oct. 15th and 16th, 1879. no place, no date. 95 + 2 pp., 8 x 5, pap.
- 149 — Remarks before the Committee on Rivers and Harbors, at a meeting Jan. 28th, 1897, having under consideration Bill H. R. 9492, 54th Cong., 2d Sess., entitled "A bill to provide for the closing of the Pass-à-Loutre Crevasse and for the improvement of the Southwest Pass at and near the mouth of the Mississippi River." E. L. Corthell. Wash., 1897. 24 pp., il., 9 x 6, pap.
- 6 — Report. U. S.-Committee on Finance. Note: Report on the repair of the levees of the Mississippi River in the State of Louisiana. Wash., 1867. 8 pp., 9 x 6, pap.
- 39 — Report of General Humphreys, Chief of Engineers, U. S. A., reviewed by James B. Eads. no place, 1874. 16 pp., 9 x 6, pap.
- 55 — Report of the Board of Officers appointed to examine the works in progress of construction by James B. Eads at the mouth of the Mississippi River. U. S.-Corps of Engineers. (45th Cong., 3d Sess. Senate ex. doc. No. 49.) Wash., 1879. 20 pp., 9 x 6, b. p.
- Report of the Commission appointed to investigate and report a permanent plan for the reclamation of the alluvial basin of the Mississippi River subject to inundation. U. S.-Commission of Engineers. (43d Cong., 2d Sess. House ex. doc. No. 127.) Wash., 1875. 160 pp., pl., maps, 9 x 6, b. p. Cf-2, p. 607.
- 51 — Report of the inspection of the South Pass improvement of the mouth of the Mississippi River, June 9th, 1876. C. B. Comstock. Wash., 1876. 9 pp., pl., 9 x 6, pap.
- 52 — Report of the recent inspection of the work of improvement of the South Pass of the Mississippi River. C. B. Comstock. (44th Cong., 1st Sess. Senate ex. doc. No. 5.) no place, 1875. 5 pp., map, 9 x 6, pap.
- 132 — Report on current-meter observations in the Mississippi River, near Burlington, Ia., during the month of Oct., 1879. Alexander Mackenzie. (Engineer Department, U. S. A.) Wash., 1884. 38 pp., 41 pl., map, 9 x 6, cl.
- 27 — Report on the Gate-way to the seas; made in Memphis, June 21st, 1876-July 21st, 1877. John Cowdon. Note: Second paper on Commercial Freedom for the Mississippi Valley. Memphis, no date. 23 pp., map, 9 x 6, pap.
- 26 — Report on the improvement of the Mississippi River. U. S.- (House) Select Committee on Mississippi River. (47th Cong., 2d Sess. House rep. No. 1985.) Wash., 1883. various pagings, 9 x 6, pap.
- Report on levees, drainage, etc. Louisiana-Standing Committee on Levees. New Orleans, 1853. 64 pp., maps, 9 x 6, b. p. Cfb-3, p. 111.

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- 54 — Report on the Mississippi Jetties, Aug. 18th, 1876. J. B. Eads. Note: Contains copy of the grant from the United States authorizing the construction of the jetties at South Pass. N. Y., 1876. 25 pp., maps, 9 x 6, pap.
- Report to Jan. 1st, 1873. Louisiana-Levee Engineers Commission. New Orleans, 1873. 1 v., 9 x 6, b. p. Cf-2, p. 765.
- 16 — Report to the Governor of Louisiana; 1874-75. Louisiana-Levee Engineers Commission. New Orleans, 1875-76. 2 v., 9 x 6, pap.
- 57 — Report upon the improvement of the South Pass of the Mississippi River; 4th-10th, 12th; 1876-78, '79. U. S.-Corps of Engineers. no place, no date. 8 v., maps, 9 x 6, pap.
- 174 — Report upon the physics and hydraulics of the Mississippi River; upon the protection of the alluvial region against overflow; and upon the deepening of the mouths; based upon surveys and investigations. A. A. Humphreys. (Professional Papers, Corps of Topographical Engineers, U. S. Army; No. 4, 1861.) Phil., 1861. 24 + 456 + 46 pp., maps, pl.,  $\frac{3}{4}$  mor.
- 161 — Reports on transportation routes to the seaboard. U. S.-Corps of Engineers. (43d Cong., 2d Sess. Senate ex. doc. No. 19, Pts., 1-8.) Wash., 1875. various pagings, pl., 9 x 6, b. p.
- 219 — Résumé des expériences hydrauliques exécutées par le gouvernement Américain sur le Mississippi; et remarques sur les conséquences qui en découlent relativement à la théorie des eaux courantes. Victor Fournié. Paris, 1867. 12 + 128 pp., 11 x 9,  $\frac{1}{2}$  ro.
- Review of Humphreys' and Abbot's report on the physics and hydraulics of the Mississippi River. J. B. Eads. 1884. (See Zb-61, p. 304.)
- 48 — Review of the letter of A. A. Humphreys, Chief of U. S. Engineers, May 1st, 1878, to E. W. Robertson, Chairman, House Committee on Levees and Improvements of the Mississippi. J. B. Eads. 10 pp., 9 x 6, pap. no title-page.
- Review of the report of U. S. Levee Commission of 1875. J. B. Eads. 1884. (See Zb-61, p. 287.)
- Review of the report upon the physics and hydraulics of the Mississippi River; upon the protection of the alluvial region against overflow; and upon the deepening of the mouths; based upon surveys and investigations made under acts of Congress; prepared by Capt. A. A. Humphreys and Lieut. H. S. Abbot. E. H. Abbot. Bost., 1862. 42 pp., 9 x 6, b. p. Cc-100, v. 2, p. 449.
- Section of Hardee's map of Louisiana; showing coast plantations below New Orleans, and location of Eads' Jetties at South Pass. T. S. Hardee. 1877. (See Qf-506.)
- 15 — Sny Island Levee Bonds: State of Illinois, Act of Legislature, Apr. 9th, 1871. E. L. Corthell. Hannibal, Mo., 1874. 47 pp., map, 9 x 6, pap.
- 12 — Sny Island Levee compared with levees on the Lower Mississippi. E. L. Corthell. Louisiana, Mo., 1874. 7 pp., 8 x 5, pap.
- 150 — Some notes physical and commercial upon the delta of the Mississippi River. E. L. Corthell. 30 pp., maps, 9 x 6, pap. no title-page.
- Source of the Mississippi. B. T. Ivison & Co. no date. (See Qe-103.)
- 403 — Specifications, etc., for constructing a levee from Evergreen, La., Lower Tensas Levee District. U. S.-Corps of Engineers. New Orleans, 1899. 9 pp., 14 x 8, pap. no title-page.
- 274 — Specifications, etc., for constructing sill across the head of Pass à Loutre, Mississippi River, La. U. S.-Corps of Engineers. New Orleans, 1899-1900. 2 v., 14 x 8, pap. no title-page.
- 356 — Specifications, etc., for construction of dams and shore protections between Burlington and Montrose, Ia. U. S.-Corps of Engineers. Rock Island, 1898. 4 pp., 14 x 8, pap. no title-page.
- 358 — Specifications, etc., for construction of dams and shore protections between Cap au Gris, Mo., and the mouth of the Illinois River. U. S.-Corps of Engineers. Rock Island, 1898. 4 pp., 14 x 8, pap. no title-page.
- 357 — Specifications, etc., for construction of dams and shore protections between Dubuque and Le Claire, Ia. U. S.-Corps of Engineers. Rock Island, 1898. 4 pp., 14 x 8, pap. no title-page.
- 354 — Specifications, etc., for construction of dams and shore protections between Hamburg, Ill., and Cap au Gris, Mo. U. S.-Corps of Engineers. Rock Island, 1898. 4 pp., 14 x 8, pap. no title-page.
- 353 — Specifications, etc., for construction of dams and shore protections between Keokuk, Ia., and Quincy, Ill. U. S.-Corps of Engineers. Rock Island, 1898. 4 pp., 14 x 8, pap. no title-page.
- 352 — Specifications, etc., for construction of dams and shore protections between New Boston, Ill., and Burlington, Ia. U. S.-Corps of Engineers. Rock Island, 1898. 4 pp., 14 x 8, pap. no title-page.
- 355 — Specifications, etc., for construction of dams and shore protections between Reed's Landing and Winona, Minn. U. S.-Corps of Engineers. Rock Island, 1898. 4 pp., 14 x 8, pap. no title-page.

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- 361 — Specifications, etc., for construction of dams and shore protections between Rock Island and New Boston, Ill. U. S.-Corps of Engineers. Rock Island, 1898. 4 pp., 14 x 8, pap. no title-page.
- 360 — Specifications, etc., for construction of dams and shore protections between Winona, Minn., and La Crosse, Wis. U. S.-Corps of Engineers. Rock Island, 1898. 4 pp., 14 x 8, pap. no title page.
- 374 — Specifications, etc., for construction of levees between Flint Creek and Iowa River, Ia. U. S.-Corps of Engineers. Rock Island, 1899. 4 pp., 14 x 8, pap. no title-page.
- 376 — Specifications, etc., for dredging in Ship Island Pass, Miss. U. S.-Corps of Engineers. Mobile, 1899. 2 pp., 14 x 8, pap. no title-page.
- 265 — Specifications, etc., for furnishing about 107 000 cu. yds. of brush and 60 000 yds. of rip-rap rock at various localities between St. Paul and the mouth of the Missouri River. U. S.-Corps of Engineers. Rock Island, Ill., 1899. 2 v., 14 x 8, pap. no title-page.
- 394 — Specifications, etc., for furnishing brush at localities between Alma, Wis., and mouth of Missouri River. U. S.-Corps of Engineers. Rock Island, 1899. 3 pp., 14 x 8, pap. no title-page.
- 384 — Specifications, etc., for furnishing brush, poles, rip-rap stone, etc., to be used in work for improving the Mississippi River. U. S.-Corps of Engineers. Memphis, 1899. 8 pp., 14 x 8, pap. no title-page.
- 309 — Specifications, etc., for furnishing cement for Lock and Dam No. 2, Mississippi River between Minneapolis and St. Paul. U. S.-Corps of Engineers. St. Paul, 1899. 8 pp., 14 x 8, pap. no title-page.
- \*458 — Specifications, etc., for furnishing one steel mitring lock gate for Lock and Dam No. 2, Mississippi River, between Minneapolis and St. Paul. U. S.-Corps of Engineers. St. Paul, 1900. 6 pp., pl., 14 x 8, pap. no title-page.
- 398 — Specifications, etc., for furnishing piles for Government works on the Mississippi River between the Ohio and the Missouri Rivers. U. S.-Corps of Engineers. St. Louis, 1898. 6 pp., 14 x 8, pap. no title-page.
- 395 — Specifications, etc., for furnishing rip-rap rock at localities between Alma, Wis., and mouth of Missouri River. U. S.-Corps of Engineers. Rock Island, 1899. 3 pp., 14 x 8, pap. no title-page.
- 359 — Specifications, etc., for furnishing steel and cast-iron members for one lock gate for Lock and Dam No. 2, Mississippi River, between Minneapolis and St. Paul. U. S.-Corps of Engineers. St. Paul, 1899. 10 pp., pl., 14 x 8, pap. no title-page.
- 367 — Specifications, etc., for furnishing stone for Government works on the Mississippi River, between the Ohio and Missouri Rivers. U. S.-Corps of Engineers. St. Louis, 1898. 6 pp., 14 x 8, pap. no title-page.
- 461 — Specifications, etc., for improving Mississippi River between mouths of Ohio and Missouri Rivers: Proposal for sixty flatboats. U. S.-Corps of Engineers. St. Louis, 1899. 6 pp., 14 x 8, pap. no title-page.
- 397 — Specifications, etc., for improving Mississippi River, St. Paul, Minn., to mouth of Missouri River. U. S.-Corps of Engineers. Rock Island, 1899. 3 pp., 14 x 8, pap. no title-page.
- 396 — Specifications, etc., for improving Mississippi River, St. Paul, Minn., to mouth of Missouri River. U. S.-Corps of Engineers. Rock Island, 1899. 4 pp., 14 x 8, pap. no title-page.
- 324 — Specifications, etc., for levee construction in Third District, improving Mississippi River. U. S.-Corps of Engineers. Memphis, 1898. 5 pp., 14 x 8, pap. no title-page.
- 315 — Specifications, etc., for levees in the Fourth District, Mississippi River. U. S.-Corps of Engineers. New Orleans, 1898. 3 v., 14 x 8, pap. no title-page.
- 392 — Specifications, etc., for re-building Kempe Levee in the Fourth District, Mississippi River. U. S.-Corps of Engineers. New Orleans, 1898. 4 pp., 14 x 8, pap. no title-page.
- 333 — Specifications, etc., for repairing embankment at Shawneetown, Ill. U. S.-Corps of Engineers. Cin., 1899. 8 pp., 14 x 8, pap. no title-page.
- 422 — Statement relative to work executed at the South Pass of the Mississippi River. J. B. Eads. (45th Cong., 2d Sess. Senate ex. doc. No. 78.) Wash., 1878. 9 pp., 9 x 6, b. p. no title-page.
- 422 — Testimony of James B. Eads and others, relating to Senate Bill No. 1262, entitled "A bill to amend an act entitled 'An act making appropriations for the repair, preservation, and completion of certain public works on rivers and harbors, and for other purposes.'" U. S. (Senate) Committee on Transportation Routes to the Seaboard. Note: Relates to Captain Eads' work on the improvement of the Mississippi. Wash., 1878. 24 pp., 9 x 6, b. p.
- 129 **MISSISSIPPI RIVER COMMISSION.** Annual report; 1881-95. Note: For reports subsequent to 1895, see Annual report of the Chief of Engineers, Cc-93. Report for 1889 wanting. Wash., 1881-95. 15 v., pl., maps, 9 x 6, cl.



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- pub. Course of the River Mississippi, from the Balise to Fort Chartres, taken on an expedition to the Illinois in the latter end of the year 1765. 1892. (See Qf-478.)
- Detail map of the Lower Mississippi River from the mouth of the Ohio River to the head of the Passes. no date. (See Qf-497.)
- 228 —Highest and lowest annual stages of the Mississippi River and principal tributaries, to 1898. no place, 1898. 8 + 29 pp., 9 x 6, pap.
- Map of the alluvial valley of the Mississippi River from the head of St. Francis Basin to the Gulf of Mexico, showing lands subject to overflow, location of levees and trans-alluvial profiles. 1887. (See Qf-229.)
- Map of the Lower Mississippi River; from the mouth of the Ohio River to the head of the Passes. 1881-97. (See Qf-482.)
- Map of the Mississippi River from Cairo to Donaldsonville; showing bank erosion, as derived from special survey made Nov. 20th, 1891, to Mar. 20th, 1892; showing also the controlling line of levees in 1892. 1892. (See Qf-404.)
- Maps of Cherokee, Sam-Phillips, Point Pleasant and Medley Bars, showing results of dredging operations, season of 1895. 1896 (?) (See Qf-227.)
- 151 —Mississippi River: Table of distances from Cairo to the Passes; compiled from the surveys of the Commission, 1883. no place, 1884. 15 pp., 6 x 4, pap.
- Preliminary map of the Lower Mississippi River from the mouth of the Ohio River to the head of the Passes. 1881-85. (See Qf-499.)
- 36 —Preliminary report. (46th Cong., 2d Sess. House ex. doc. No. 58.) Wash., 1880. 23 pp., 9 x 6, pap. no title-page.
- 139 —Report of the Assistant Engineer, on the investigation of the relations between stage of river and erosion or fill of the bed. J. A. Ockerson. no place, 1896. 15 pp., 9 x 6, pap.
- 141 —Reports and tables relating to dredging operations and tests for capacity of Dredge Alpha, 1894-95. Henry Flad. no place, 1896. 6 pp., 2 tab., 9 x 6, pap.
- 460 —Specifications, etc., for furnishing four pile sinkers. St. Louis, 1898. 6 pp., 14 x 8, pap. no title-page.
- 11 —Specifications, etc., for furnishing self-propelling hydraulic dredges. St. Louis, 1898-99. 2v., 14 x 8, pap. no title-page.
- 451 —Specifications, etc., for steel pontons. St. Louis, 1900. 7 pp., 13 x 8, pap.
- 156 —Stages of the Mississippi River and of its principal tributaries; 1896-99. no place, 1897-1900. 4 v., 9 x 6, pap.
- 235 —Stages of the Mississippi River at Rock Island, Ill., Burlington, Ia., Nashville, Ia., 1872-8 to 1897; being Appendix to "Stages of the Mississippi River and of its principal tributaries for 1898." St. Louis, 1899. 134 pp., 9 x 6, pap.
- 146 —Supplemental report recommending an immediate appropriation of \$50 000 for the general work of surveys. (49th Cong., 1st Sess. House ex. doc. No. 38.) Wash., 1886. 24 pp., 9 x 6, pap.
- MISSOURI RIVER.** Geological report of the exploration, by F. V. Hayden; under the direction of W. F. Reynolds, Corps of Engineers, 1859-60. U. S.-Yellowstone and Missouri Rivers Exploring Expedition. 1869. (See Qf-111.)
- Map of the Missouri River; from surveys made in accordance with acts of Congress approved June 18th, 1878, and Mar. 3d, 1879, under the direction of Major Chas. R. Suter, by D. W. Wellman. U. S.-Corps of Engineers. no date. (See Qf-481.)
- 62 —A Missouri flood wave. W. R. Hutton. 3 pp., 9 x 6, pap. no title-page.
- The Missouri River from Ft. Benton, Mont., to Sioux City, Ia.: Charts Nos. 1 to 198. U. S.-Corps of Engineers. Note: Chart No. 38 wanting. 1891-92. (See Qf-171.)
- Same. Index charts, Nos. 1, 3 and 4. 1892. (See Qf-171a.)
- 49 —On the physical characteristics of the Missouri River, and the means used for directing and controlling its channel at St. Joseph, Mo. E. D. Mason. St. Joseph, 1872. 25 pp., 9 x 6, pap.
- Report of a reconnaissance of the Missouri River in 1872. T. P. Roberts. 1875. (See Qf-112.)
- 119 —Report of examination of the Missouri River from Three Forks to Canyon Ferry, Mont. H. F. Hodges. Wash., 1894. 10 pp., 6 pl., 9 x 6, pap.
- 310 —Specifications, etc., for constructing revetment at Judith, Mont. U. S.-Corps of Engineers. Sioux City, 1899. 8 pp., 14 x 8, pap. no title-page.
- 253 **MOBILE RIVER.** Specifications, etc., for hire of dredging plant for Mobile River and Bay, Ala. U. S.-Corps of Engineers. Mobile, 1898. 2 pp., 14 x 8, pap. no title-page.
- 375 —Specifications, etc., for removing wrecks of side-dump scow and barge, from Mobile River, Ala. U. S.-Corps of Engineers. Mobile, 1899. 2 pp., 14 x 8, pap. no title-page.
- 271 **MONONGAHELA RIVER.** Specifications, etc., for constructing six locks and dams on Monongahela River at and above Morgantown, Pa. U. S.-Corps of Engineers. Pittsburg, 1897. 13 pp., 14 x 8, pap. no title-page.

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- 381 **MUD RIVER.** Specifications, etc., for dredging of inside route, Savannah, Ga., to Beaufort, S. C. U. S.-Corps of Engineers. Savannah, 1899. 10 pp., 14 x 8, pap. no title-page.
- 319 **MYSTIC RIVER, CONN.** Specifications, etc., for removal of rock from Mystic River. U. S.-Corps of Engineers. New London, 1899. 6 pp., 14 x 8, pap. no title-page.
- MYSTIC RIVER, MASS.** Communication in relation to the waters of Mystic River and Pond. U. S.-Commissioners on Boston Harbor. (City doc. No. 34.) no place, 1860. 5 pp., 9 x 6, b. p. Cc-106, v. 1, p. 63.
- 241 — Specifications, etc., for dredging in Mystic River. U. S.-Corps of Engineers. no place, 1899-1900. 2 v., 14 x 8, pap. no title-page.
- 314 **NANDUA CREEK.** Specifications, etc., for dredging in Nandua Creek, Va. U. S.-Corps of Engineers. Norfolk, 1899. 7 pp., 14 x 8, pap. no title-page.
- 280 **NANSEMOND RIVER.** Specifications, etc., for improvement of Nansemond River, Va. U. S.-Corps of Engineers. Wash., 1874. 2 pp., 10 x 8, pap. no title-page.
- 450 **NARRAGUAGUS RIVER.** Specifications, etc., for dredging at Narraguagus, River, Me. U. S.-Corps of Engineers. Portland, 1900. unpag., 13 x 8, pap.
- 304 **NECHES RIVER.** Specifications, etc., for improving Sabine and Neches Rivers, Tex. U. S.-Corps of Engineers. New Orleans, 1899. 6 pp., 14 x 8, pap. no title-page.
- NETHERLANDS.** Efforts to clear the ice on some of the Dutch rivers. C. B. Schuurman and A. C. Burgdorffer. (International Cong. on Inland Navigation, 6th.) The Hague, 1894. 47 + 2 pp., pl., 10 x 7, pap. Ca-6.17.
- L' état et l'exploitation des voies navigables des Pays-Bas. P. W. van der Sleyden. (International Cong. on Inland Navigation, 4th.) 1890. (See Ca-4.1, p. 695.)
- Guide. International Congress on Inland Navigation, 6th. Contents: Pt. 1, Programme, plans, dessins; Pt. 2, Communications diverses sur les Pays-Bas. La Haye, 1894. 2 v., pl., maps, 7 x 5, pap. Ca-6.1.
- 214 — Sketch of the public works in the Netherlands. L. C. van Kerkwyk. Haarlem, 1876. 8 + 199 pp., tab., 11 x 7, cl.
- Traction and propulsion upon canals, canalized rivers and rivers of natural flow. E. H. Stieltjes. (International Cong. on Inland Navigation, 6th.) The Hague, 1894. 27 pp., 10 x 7, pap. Ca-6.20.
- NEW JERSEY.** Annual report of the Riparian Commissioners; with accompanying documents; 1873-77, '91. (See Ca-39.)
- Report on water-supply, water-power, the flow of streams and attendant phenomena. C. C. Vermeule. 1894. (See Yh-25, v. 3.)
- NEW SOUTH WALES.** Reports of the Engineer-in-Chief of the Department of Public Works, on rivers. (See De-115.)
- NEW YORK STATE.** On the application of the principles of forestry and water storage to the mill streams of the State of New York. G. W. Rafter. 1899. (See Dd-26.)
- Reports of the State Engineer and Surveyor; and letters and reports to him upon the canals, railroads and rivers of the State, 1852-53. W. J. McAlpine. (See Cfe-36.)
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- 476 **RHINE RIVER.** Bijlagen bij de Registers I, II en III, bevattende de beschrijving van de peilschalen, hakkelbouten en andere verkenmerken, langs de rivieren de Boven-Rijn, de Waal en de Merwede van Emmerik tot Gorinchem. L. J. A. van der Kun and others. no place, 1854. 2 v., 16 x 10, ½ skiv.
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- 164 — Hydrology of the St. Lawrence. T. E. Blackwell. no place, no date. pp. 249-304, pl., 12 x 9, pap.
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- 321 —Specifications, etc., for removing ledges in the St. Lawrence River, N. Y. U. S.-Corps of Engineers. Oswego, 1899. 7 pp., 14 x 8, pap. no title-page.
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- 23 **TENNESSEE RIVER.** Memorial on behalf of the removal of Muscle Shoals obstruction to the navigation of the Tennessee River; being the official report of a convention held at Chattanooga, Dec. 5th, 1877. Note: Memorial to the President and Congress of the United States. Chattanooga, 1878. 23 pp., 8 x 6, pap.
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- 322 **WEYMOUTH RIVER.** Specifications, etc., for removing wreck from Weymouth River, Mass. U. S.-Corps of Engineers. Bost., 1899. 3 pp., 14 x 8, pap. no title-page.
- 371 **WEYMOUTH (FORE) RIVER.** Specifications, etc., for dredging in Weymouth (Fore) River, Mass. U. S.-Corps of Engineers. Bost., 1899. 3 pp., 14 x 8, pap. no title-page.
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- 204 **ARDGLASS HARBOR, IRELAND.** Report from the Committee on the petition relating to Ardglass Harbour. Great Britain-Committee on Ardglass Harbour. no place, 1809. 12 pp., map, 13 x 8, b. p.
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- 445 **ASHTABULA HARBOR.** Specifications, etc., for constructing breakwaters at Ashtabula Harbor, Ohio. U. S.-Corps of Engineers. Cleveland, 1900. 21 pp., pl., 14 x 8, pap. no title-page.
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- 399 — Specifications, etc., for dredging a channel from the main ship-channel to Curtis Bay, Baltimore Harbor, Md. U. S.-Corps of Engineers. Balt., 1900. 9 pp., 14 x 8, pap. no title-page.
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- 374 **BAR HARBOR.** Specifications, etc., for placing stone in breakwater near Bar Harbor, Me. U. S.-Corps of Engineers. Portland, 1899. 8 pp., 14 x 8, pap. no title-page.
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- 209 **BLACK LAKE HARBOR.** Specifications, etc., for the improvement of Black Lake Harbor, Mich. U. S.-Corps of Engineers. Detroit, 1875. 11 pp., 10 x 8, pap.
- 446 **BLACK RIVER HARBOR.** Specifications, etc., for constructing breakwaters and piers at Black River Harbor, Lorain, Ohio. U. S.-Corps of Engineers. Cleveland, 1900. 23 pp., pl., 14 x 8, pap. no title-page.
- 256 —Specifications, etc., for dredging in Black River Harbor, Lorain, Ohio. U. S.-Corps of Engineers. Cleveland, 1899. 6 pp., 14 x 8, pap. no title-page.
- BLACK ROCK HARBOR.** Harbors of Black Rock and Bridgeport, Conn. U. S.-Coast Survey. 1848. (See Qf-123).
- 273 **BLOCK ISLAND HARBOR.** Specifications, etc., for dredging channel at entrance to Great Salt Pond, Block Island, R. I. U. S.-Corps of Engineers. Newport, 1899. 4 pp., 13 x 8, pap. no title-page.
- 330 —Specifications, etc., for repairing breakwater at Block Island, R. I. U. S.-Corps of Engineers. Newport, 1899. 6 pp., 13 x 8, pap. no title-page.
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- 100 —Communication in relation to a scientific survey of Boston Harbor. Boston-Mayor. (City doc., No. 64.) no place, 1859. 10 pp., 9 x 6, b. p.
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- 77 —Discussion of tides in Boston Harbor. William Ferrel. no place, 1870. 54 pp., 12 x 9, pap.
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- 155 —Report of the Committee appointed under Chapter 93 of the Resolves of 1867, in relation to the Commonwealth Flats, near South Boston. Bost., 1868. 105 pp., pl., maps, 10 x 6, pap.
- 94 —Report of the Harbor Committee for the year 1852. Note: Appendix to Report for 1852 contains a *résumé* of reports of the Board of Commissioners of Boston Harbor, from the first report in 1835 to 1851, inclusive. Bost., 1853. 1 v., 10 x 6, cl.
- 353 —Special report on the sea wall, built in the year 1843, for the preservation of Ram Head at the northwest end of Lovell's Island, in the Harbor of Boston, Mass. S(ylvanus) Thayer. (Papers on Practical Engineering, Corps of Engineers, No. 2.) Wash., 1844. pp. 213-232, pl., tab., 9 x 6, pap.
- 198 —Specifications, etc., for construction of wharf at Long Island Head, Mass., 1898. U. S.-Corps of Engineers. Bost., 1898. 4 pp., 14 x 8, pap. no title-page.
- 255 —Specifications, etc., for construction of wharf at Lovell's Island, Boston Harbor, Mass. U. S.-Corps of Engineers. Bost., 1899. 3 pp., 14 x 8, pap. no title-page.



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- 358 — Specifications, etc., for dredging in Broad Sound, Boston Harbor, Mass. U. S.-Corps of Engineers. Bost., 1900. 4 pp., 14 x 8, pap. no title page.
- 278 — Specifications, etc., for reconstruction of wharf at Castle Island, Boston Harbor, Mass. U. S.-Corps of Engineers. Bost., 1899. 3 pp., 14 x 8, pap. no title-page.
- 76 — Submarine blasting in Boston Harbor, Mass.: Removal of Tower and Corwin Rocks. J. G. Foster. N. Y., 1869. 23 pp., 7 pl., 12 x 9, cl.
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- 317 — Specifications, etc., for dredging and stone work in Bridgeport Harbor, Conn. U. S.-Corps of Engineers. New London, 1899. 9 pp., 14 x 8, pap. no title-page.
- 315 — Specifications, etc., for dredging in Bridgeport Harbor, Conn. U. S.-Corps of Engineers. New London, 1898. 6 pp., 14 x 8, pap. no title-page.
- BROOKLYN HARBOR.** Report, made by order of the Common Council of the City of Brooklyn, on the water line of that city, 10th Sept., 1835. J. G. Swift. Brooklyn, 1835. 12 pp., 9 x 5, b. p. Ac-139, p. 359.
- 462 **BRUNSWICK HARBOR.** Brief of C. P. Goodyear, contractor with the Government of the United States, to deepen the outer bar of Brunswick, Ga., by explosions of dynamite on the bottom and underneath the bottom of such bar, and by the use of auxiliary means to smooth and level the bottom of such bar. Wash., 1899. 24 pp., 9 x 6, pap.
- 457 — Brunswick, Ga., outer bar improvement; voluntary and unsolicited statements from E. L. Corthell, Civil Engineer. Wash., 1900. 20 pp., 9 x 6, pap.
- 461 — Comparative statement showing cost of outer bar deepening per foot upon ocean bars on the Gulf and Atlantic Coasts as compared with such cost at Brunswick, Ga.; ports being taken for comparison which are strictly ocean bar, and not, as at Savannah and Mobile, which are mainly river improvements; also comparative cost per foot, with cost estimated by the Government for the outer bar of Brunswick, Ga. no place, no date. tab., 10 x 9, pap.
- 456 — Letter from the Secretary of the Treasury, transmitting the report of H. L. Marindin, the officer of the Coast and Geodetic Survey detailed by the Secretary of War, under the provisions of the River and Harbor Acts of 1894, 1896 and 1899, to make survey of the outer bar of Brunswick, Ga.; together with supplemental report thereto. (56th Cong., 1st Sess. Senate doc. No. 233.) Wash., 1900. 22 pp., il., 9 x 6, pap. no title-page.
- 458 — Proposed additional legislation authorizing C. P. Goodyear to further deepen and widen the outer bar of Brunswick, Ga.; to compensate him for maintenance, and to pay him for excess of widths of 24 and 25 ft. depths over those named in his contract with the Government in same proportion as has been paid for widths already obtained of such depths. C. P. Goodyear. no place, no date. 5 pp., 9 x 6, pap. no title-page.
- 117 — Quotations from reports of Board created under the River and Harbor Act of 1894, to measure and certify depths upon outer bar of Brunswick, Ga. C. P. Goodyear. Wash., 1896. unpag., 10 x 8, pap.
- 454 — Report as to the value of the work of C. P. Goodyear on the outer bar of Brunswick, Ga., to the Government, based on his report of survey of Apr. 28th, 1898. H. L. Marindin. (56th Cong., 1st Sess. Senate doc. No. 52.) Wash., 1899. 11 pp., 9 x 6, pap. no title-page.
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- 459 — Resolutions of the Georgia General Assembly, unanimously passed after that body had visited the outer bar improvement at Brunswick, Ga., on November 30th, 1899. no place, no date. 3 pp., 9 x 6, pap. no title-page.
- 235 — Specifications, etc., for dredging in Brunswick and Darien Harbors, Ga. U. S.-Corps of Engineers. Savannah, 1899. 8 pp., 14 x 8, pap. no title-page.
- 460 — Statistical statement: Draft and tonnage of vessels of 17 ft. draft and over, from 1890, year before bar work commenced upon outer bar of Brunswick, Ga., and for succeeding years. no place, no date. tab., 9 x 5, pap.
- 453 **BUENOS AIRES HARBOR.** Exámen de la propuesta y proyecto del puerto de Eduardo Madero; discusion franca. L. A. Huergo. Buenos Aires, 1886. 2 v., maps, 10 x 6, pap.
- BUFFALO HARBOR.** Chart of Buffalo Harbor and head of Niagara River, with the outlet of Lake Erie. U. S.-Bureau of Topographical Engineers. 1856 (?) (See Qf-100.)
- 225 — Specifications, etc., for construction of concrete superstructure on breakwater at Buffalo, N. Y. U. S.-Corps of Engineers. Buffalo, 1899. 13 pp., 14 x 8, pap.

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- 264 — Specifications, etc., for construction of timber crib and concrete breakwater at Buffalo, N. Y. U. S.-Corps of Engineers. Buffalo, 1899. 19 pp., 14 x 8, pap.
- 239 **BURLINGTON HARBOR.** Specifications, etc., for repairing breakwater at Burlington, Vt.; removing rock and dredging in Otter Creek, Vt.; and dredging at Narrows of Lake Champlain, N. Y. and Vt. U. S.-Corps of Engineers. N. Y., 1899. 7 pp., 14 x 8, pap. no title-page.
- 361 **CALIFORNIA.** Biennial report of the Board of State Harbor Commissioners; July, 1888-June, 1890. Sacramento, 1890. 1 v., map, 9 x 6, pap.  
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- 247 **CALUMET HARBOR.** Specifications, etc., for constructing breakwater, Calumet Harbor, Ill. U. S.-Corps of Engineers. Chic., 1899. 9 pp., 14 x 8, pap. no title-page.
- 214 — Specifications, etc., for improving harbor at Calumet, Ill. U. S.-Corps of Engineers. Chic., 1875. 10 pp., 10 x 8, pap.
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- 272 **CAPE CHARLES CITY HARBOR.** Specifications, etc., for constructing jetties of brush and stone in harbor at Cape Charles City, Va. U. S.-Corps of Engineers. Norfolk, 1899. 6 pp., 14 x 8, pap. no title-page.
- CAPE COD HARBOR.** Comparative map of Cape Cod Harbor, showing physical changes between the survey in 1835 and the U. S. Coast Survey in 1867. Massachusetts-Cape Cod Harbor Commission. no date. (See Qf-226.)
- CAPE FLATTERY HARBOR.** Cape Flattery and Neé-ah Harbor, Wash. U. S.-Coast Survey. 1853. (See Qf-242.)
- 270 **CAPE PORPOISE HARBOR.** Specifications, etc., for dredging harbor at Cape Porpoise, Me. U. S.-Corps of Engineers. Portland, 1899. 6 pp., 13 x 8, pap. no title-page.
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- CAPTAIN'S ISLAND HARBOR.** Harbors of Captain's Island East and Captain's Island West, Conn. U. S.-Coast Survey. 1849. (See Qf-115.)
- 345 **CARVER'S HARBOR.** Specifications, etc., for dredging at Carver's Harbor, Me. U. S.-Corps of Engineers. Portland, 1899. 7 pp., 14 x 8, pap. no title-page.
- CAT ISLAND HARBOR.** Cat and Ship Island Harbors, Miss. U. S.-Coast Survey. 1850. (See Qf-188.)
- CATALINA HARBOR.** Reconnaissance of Catalina Harbor and the anchorage on the N. E. side of the island, Cal. U. S.-Coast Survey. 1852. (See Qf-167.)
- 204 **CATWATER HARBOR, ENG.** Report from the Select Committee on the embankments in Catwater, etc. no place, 1806. 18 pp., map, 13 x 8, b. p.
- CAWKIN'S ISLAND.** Harbors of Sheffield Island and Cawkin's Island, Conn. U. S.-Coast Survey. 1848. (See Qf-182.)
- CHARLESTON HARBOR.** Engineer and artillery operations against the defences of Charleston Harbor in 1863; with a supplement by Q. A. Gillmore. U. S.-Corps of Engineers. (Professional Papers, Corps of Engineers, No. 16.) 1868. (See La-5.)
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- 301 — Specifications, etc., for dredge *General Marion*. U. S.-Corps of Engineers. Charleston, 1899. 18 pp., 14 x 9, pap. no title-page.
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- 260 — Specifications, etc., for removing wreck from Chatham Harbor, Mass. U. S.-Corps of Engineers. Bost., 1898. 3 pp., 14 x 8, pap. no title-page.
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- 81 **CHERBOURG HARBOR.** Mémoire sur la digue de Cherbourg, comparée au breakwater ou jetée de Plymouth. J. M. F. Cachin. Paris, 1820. 85 pp., 5 pl., 12 x 9, cl.
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- Atlas containing maps of Chicago River, Ill., and its branches; showing result of improvement by the U. S. Government, under direction of Major W. L. Marshall, Corps of Engineers, U. S. A., in 1896 to 1899. U. S.-Corps of Engineers. no date. (See Qf-422.)
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- 223 — Specifications, etc., for dredging in Cleveland Harbor, Ohio. U. S.-Corps of Engineers. Cleveland, 1899. 2 v., 14 x 8, pap. no title-page.
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- 334 **CONNEAUT HARBOR.** Specifications, etc., for constructing a part of West Breakwater, at Conneaut Harbor, Ohio. U. S.-Corps of Engineers. Cleveland, 1899. 17 pp., 14 x 8, pap. no title-page.
- 241 **COOS BAY.** Specifications, etc., for constructing jetty, etc., at Coos Bay, Ore. U. S.-Corps of Engineers. Portland, 1899. 13 pp., 14 x 9, pap. no title-page.
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- 291 **COS COB HARBOR.** Specifications, etc., for dredging in Cos Cob Harbor, Conn. U. S.-Corps of Engineers. New London, 1899. 6 pp., 14 x 9, pap. no title-page.
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- 298 **CRISFIELD HARBOR.** Specifications, etc., for removing wreck of puny *Cornelia Ann* in Harbor of Crisfield, Md. U. S.-Corps of Engineers. Wilmington, 1899. 3 pp., 14 x 9, pap. no title-page.
- 470 **CUMBERLAND SOUND.** General court martial of O. M. Carter, convened at Savannah, Ga., Jan. 12th, 1898; charges, abstract of evidence and briefs of arguments. no place, no date. various pagings, 9 x 6, cl.
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- 202 **DOVER HARBOR, ENG.** Report on the harbour of refuge to be constructed in Dover Bay. Great Britain-Harbor of Refuge Commissioner (1845.) Lond., 1846. 12 + 131 pp., il., map, 13 x 8, b. p.
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- 34 **EVERETT HARBOR.** Specifications, etc., for dredging Everett Harbor, Wash. U. S.-Corps of Engineers. no place, 1899. 10 pp., 14 x 8, pap. no title-page.
- 261 **FAIRPORT HARBOR.** Specifications, etc., for constructing a part of West Breakwater at Fairport Harbor, Ohio. U. S.-Corps of Engineers. Cleveland, 1899. 17 pp., 14 x 8, pap. no title-page.
- 320 **FALL RIVER HARBOR.** Specifications, etc., for dredging Fall River Harbor, Mass. U. S.-Corps of Engineers. Newport, 1899. 6 pp., 13 x 8, pap. no title-page.
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- 122 **FIRE ISLAND INLET.** Fire Island Inlet: Is it moving east or west and at what rate? L. M. Haupt. 6 pp., map, 9 x 6, pap. no title-page.
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- 227 **FIVE MILE RIVER HARBOR.** Specifications, etc., for dredging in Five Mile River Harbor, Conn. U. S.-Corps of Engineers. New London, 1899. 6 pp., 14 x 8, pap. no title-page.
- 133 **FLUSHING HARBOR.** View of the Harbour of Flushing, at the mouth of the River Scheldt . . . and of the canal and railroad to Middleburgh. Middleburgh, Holland, 1873. sheet, 9 x 12, pap.
- 204 **FOLKESTONE HARBOR.** Return to an order of the House of Commons for copy of any report, made in the course of last summer, to the Board of Admiralty, on the state of Folkestone Harbour. no place, 1838. 5 pp., pl., 13 x 8, b. p. no title-page.
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- 135 **MAZATLAN HARBOR.** Informe rendido a la Secretaria de Comunicaciones y Obras Publicas acerca del proyecto de mejoramiento del Puerto de Mazatlan segun contrato de Diciembre 26 de 1896; informe del Natividad Gonzalez, y refutacion a algunos puntos del informe anterior. E. K. Smoot. Mexico, 1897. 64 pp., pl., 10 x 6, pap.
- MEXICO.** Memoria que el Secretario de Estado y del Despacho de Fomento, Colonizacion, Industria y Comercio presenta al Congreso de la Union; 1865, '73. (See Na-119.)
- 98 **MICHIGAN.** Annual report upon the improvement of rivers and harbors on Lake Erie, west of Erie, Pa. U. S.-Corps of Engineers. Note: Appendix to the Annual report of the Chief of Engineers. Wash., 1896-98. 3 v., pl., 9 x 6, pap.
- 238 — Specifications, etc., for dredging Cheboygan Harbor, Mich., Alpena Harbor, Mich., Saginaw River, Mich., bar at mouth of Saginaw River, Mich., Sebawaing River, Mich., Pine River, at St. Clair, Mich., Belle River, at Marine City, Mich. U. S.-Corps of Engineers. Detroit, 1899. 9 pp., 14 x 8, pap. no title-page.
- 60 **MICHIGAN CITY HARBOR.** Specifications, etc., for construction of breakwaters at Michigan City, Ind. U. S.-Corps of Engineers. Grand Rapids, 1899. 12 pp., 14 x 8, pap. no title-page.
- 208 — Specifications, etc., for improving harbor at Michigan City, Ind. U. S.-Corps of Engineers. Chic., 1875. 9 pp., 10 x 8, pap.
- 343 — Specifications, etc., for removal of part of the wreck of the Steamer *Horace A. Tuttle*. U. S.-Corps of Engineers. Grand Rapids, 1899. 6 pp., 14 x 8, pap. no title-page.
- 197 **MICHIGAN, LAKE.** Specifications, etc., for dredging harbors on east shore of Lake Michigan, 1898-1900. U. S.-Corps of Engineers. Grand Rapids, 1898-1900. 3 v., 14 x 8, pap. no title-page.
- MIDDLE ISLAND.** Harbors of refuge: Presqu' Ile, False Presqu' Ile and Middle Island, Lake Huron. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) 1858. (See Qf-112.)
- 237 **MILFORD HAVEN.** Specifications, etc., for dredging at Milford Haven, Va. U. S.-Corps of Engineers. Wash., 1899-1900. 2 v., 14 x 8, pap. no title-page.
- 284 **MILWAUKEE HARBOR.** Specifications, etc., for construction of breakwater, improving harbor of refuge, at Milwaukee, Wis. U. S.-Corps of Engineers. Milwaukee, 1899. 6 pp., 14 x 8, pap. no title-page.
- 230 — Specifications, etc., for dredging for improving harbor at Milwaukee, Wis. U. S.-Corps of Engineers. Milwaukee, 1899. 3 pp., 14 x 8, pap. no title-page.
- 332 **MISSISSIPPI SOUND.** Specifications, etc., for dredging and maintaining channel and basin in Mississippi Sound, Miss., between Ship Island Harbor and Gulf Port, Miss. U. S.-Corps of Engineers. Mobile, 1899. 2 pp., 14 x 8, pap. no title-page.
- MOBILE BAY.** Entrance to Mobile Bay. U. S.-Coast Survey. 1851. (See Qf-126.)
- Preliminary sketch of Mobile Bay. U. S.-Coast Survey. 1851. (See Qf-169.)
- 102 — Specifications, etc., for constructing sea wall at Fort Morgan, Mobile Point, Ala. U. S.-Corps of Engineers. no place, 1899. unpagd, 14 x 8, pap. no title-page.



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- 216 — Specifications, etc., for construction of shore protection at Fort Morgan, Mobile Point, Ala. U. S.-Corps of Engineers. Mobile, 1898. 2 pp., 14 x 9, pap. no title-page.
- 344 — Specifications, etc., for dredging in Mobile Bay, Ala. U. S.-Corps of Engineers. Mobile, 1899. unpag., 14 x 8, pap. no title-page.
- 269 **MONROE HARBOR.** Specifications, etc., for dredging at Monroe Harbor, Mich. U. S.-Corps of Engineers. Cleveland, 1899. 8pp., 14 x 8, pap. no title-page.
- MONTEREY HARBOR.** Monterey Harbor, Cal. U. S.-Coast Survey. 1852. (See Qf-117.)
- 21 **MONTREAL HARBOR.** Annual report of the Harbour Commissioners; 1875-98. Note: Report for 1894 wanting. Montreal, 1877-99. 22 v., 9 x 6, pap.
- 6 — Annual report of the Harbour Engineer; 1860, '62. Note: Report for 1860 contains report on the extension and improvement of the Harbor of Montreal, by Robert Forsyth. Montreal. 1861-63. 2 v., 9 x 6, pap.
- 19 — By-laws of the Harbour Commissioners; passed 26th Jan., 1875; sanctioned 10th Apr., 1875. Montreal, 1881. 16 pp., 9 x 6, pap.
- 11 — Documents relating to the deepening of the ship channel through Lake St. Peter, etc. Montreal, 1853. 13 pp., 10 x 6, pap.
- 68 — Editorials upon the plans proposed by John C. Trautwine and John Young for the improvement of Montreal Harbour and the increase of Montreal trade. Nov. 20th-23d, 1858. *Montreal Gazette*. Montreal, 1858. newspaper slips, 9 x 6, b. p. no title-page.
- 418 — The Harbour of Montreal and Shearer's Peninsular Scheme; laid before the annual meeting of the American Society of Civil Engineers. James Shearer. Montreal, 1881. 1 p., 14 x 10, pap.
- 68 — Letters to "a merchant," upon rival routes to the ocean from the West, and docks at Montreal. William Workman. Montreal, 1859. 23 pp., 8 x 5, b. p.
- 68 — Plan of part of the City of Montreal showing as regards its present harbor, the existing piers, the improvements suggested by the Harbour Commissioners and those recommended by John C. Trautwine. Montreal, 1858 (?) map, 29 x 34, b. p.
- 8 — Preliminary report and plans showing the necessity of hydraulic docks at Montreal, with manufacturing facilities in connection with a city terminus for the Grand Trunk Ry. Charles Legge. Montreal, 1861. 42 pp., map., 9 x 6, pap.
- 68 — Report of the Committee of Citizens, upon harbour improvements and dock accommodation. Thomas Ryan and others. Montreal, 1859. 17 pp., 8 x 5, b. p.
- 95 — Report, on a general scheme of improvements for the Harbour of Montreal, by the Commission of Engineers. R. B. Bell and others. Montreal, 1877. 195 pp., maps, 9 x 6, cl.
- 74 — Report on the improvement of the Harbour of Montreal, and on the trade and navigation of the St. Lawrence. John Childe and others. no place, 1857. 16 pp., 11 x 9, pap. no title-page.
- 17 — Report on the St. Lawrence Bridge and Manufacturing Scheme, 13th Dec., 1882. John Kennedy. Note: Report upon the feasibility of the scheme and its probable effect upon the harbour if carried out. Montreal, 1882. 12 pp., 13 x 8, pap.
- 10 — Reports in relation to the affairs of the Harbour Commissioners and the deepening of the ship channel in Lake St. Peter and the River St. Lawrence. Montreal, 1855. various pagings, maps, 9 x 5, pap.
- 20 — Reports of the Harbour Commissioners in relation to improvements in the Harbour and deepening the ship channel between Montreal and Quebec; also the report of the Harbour Master for the year 1875. Montreal, 1876. 29 pp., 9 x 6, pap.
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- 68 — Reports on the means of improving the present harbour, and the construction of docks at Montreal; also a reply to the same, in a letter addressed to the Harbour Commissioners, by the Hon. John Young. J. C. Trautwine. Montreal, 1859. 130 pp., 8 x 5, b. p.
- 319 **MOOSEABEC CHANNEL.** Specifications, etc., for ledge excavation at Mooseabec Bar, Sullivan Falls, Me. U. S.-Corps of Engineers. Portland, 1899. 7 pp., 13 x 8, pap. no title-page.
- 378 **MUSKEGON HARBOR.** Specifications, etc., for pier extension at Muskegon, Mich. U. S.-Corps of Engineers. Grand Rapids, 1899. 8 pp., 14 x 8, pap. no title-page.
- 195 — Specifications, etc., for repairing Government Pier at Muskegon, Mich., 1898-99. U. S.-Corps of Engineers. Grand Rapids, 1898-99. 2 v., 14 x 8, pap. no title-page.
- NANTUCKET HARBOR.** Map of Nantucket Harbor, Mass. U. S.-Coast Survey. 1848. (See Qf-190.)
- 324 — Specifications, etc., for jetty construction at Nantucket, Mass. U. S.-Corps of Engineers. Newport, 1899. 6 pp., 13 x 8, pap. no title-page.

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- NEE-AH HARBOR.** Cape Flattery and Nee-ah Harbor, Wash. U. S.-Coast Survey. 1853. (See Qf-242.)
- NETHERLANDS.** Account of the harbors of the Netherlands. L. C. van Kerkwyk. 1876. (See Cb-214, p. 144.)
- Guide. International Congress on Inland Navigation, 6th. La Haye, 1894. 2 v., pl., maps, 7 x 5, pap. Ca-6.1.
- NEW BEDFORD HARBOR.** Annual reports to the City Council by the City Land Surveyor. (See On15-2.1.)
- The Harbor of New Bedford, Mass. U. S.-Coast Survey. 1850. (See Qf-183.)
- 318 —Specifications, etc., for dredging anchorage area in New Bedford Harbor, Mass. U. S.-Corps of Engineers. Newport, 1899. 7 pp., 13 x 8, pap. no title-page.
- 55 **NEW BUFFALO HARBOR.** Report on the survey of the Harbor of New Buffalo. J. M. Berrien. Wash., 1838. 9 pp., maps, 9 x 6, pap. no title-page.
- 215 **NEW CASTLE HARBOR.** Ice harbor pier at New Castle, Del.: Specifications, etc. U. S.-Corps of Engineers. Phil., 1875. 2 pp., 11 x 8, pap. no title-page.
- NEW HAVEN HARBOR.** Map of New Haven and its harbor, in the State of Connecticut. F. R. Hassler. 1839. (See Qf-483.)
- Map of New Haven Harbor. U. S.-Coast Survey. 1846. (See Qf-191.)
- 341 —Specifications, etc., for dredging in New Haven Harbor, Conn. U. S.-Corps of Engineers. New Lond., 1899. 7 pp., 14 x 8, pap. no title-page.
- NEW JERSEY.** Annual report of the Riparian Commissioners; with accompanying documents; 1873-77, '91. (See Ca-39.)
- NEW LONDON HARBOR.** The Harbor of New London, Conn. U. S.-Coast Survey. 1848. (See Qf-120.)
- NEW SOUTH WALES.** Reports of the Engineer-in-Chief on harbors. (See De-115, Annual report of the Public Works Department.)
- 161 **NEW YORK HARBOR.** Account of the steamboat controversy between citizens of New York and citizens of New Jersey, from 1811 to 1824, originating in the asserted claim of New York to the exclusive jurisdiction over all the waters between the two states. J. D. Ward. Newark, 1863. 19 pp., 9 x 6, pap.
- 176 —Accounts in the New York daily papers of the blowing up of Flood Rock in Hell Gate. N. Y., 1885. newspaper slips.
- 52 —Action of the Commissioners governing the Department of Docks, on the construction of the river wall designed by the Engineer-in-Chief, George S. Greene, Jr., and progress of erection on the water-front since 1876; and report thereon by John Newton, Q. A. Gillmore and William E. Worthen. N. Y., 1881. 14 pp., 9 x 6, pap.
- 71 —Address to the members of the New York Produce Exchange. Thursday, Oct. 24th, 1878, "On the practicability of permanently maintaining several feet increased depth over the Sandy Hook Bar, and otherwise improving the Channel." H. F. Knapp. no place, 1878. 14 pp., 9 x 6, pap.
- 390 —Annual report of the Department of Docks for the year ending Apr. 30th; 6th-10th, 12th, 14th-18th, 22d-25th; 1876-80, '82, '84-88, '92-95. Note: Reports 1885-88, '92-95 contain minutes of the Board. For 1st annual report see On25-5.1, Message of the Mayor for 1871. N. Y., 1876-95. 15 v., pl., maps, 9 x 6, cl.
- 48 —Annual report upon the improvement of rivers and harbors in the States of New York (including the removal of obstructions at Hell Gate) and New Jersey. John Newton. Note: Appendix Y of the Annual report of the Chief of Engineers for 1875. Wash., 1875. 49 pp., maps, 9 x 6, pap.
- Same, 1874. 30 pp., 9 x 6, b. p. Note: Appendix W of the Annual report of the Chief of Engineers. Cf-2, p. 913.
- 40 —Argument before the Committee of Commerce, House of Representatives, on the report of the Board of Engineers, to whom was referred a bill to provide for the "Deepening of Sandy Hook Bar of the Port of New York." H. F. Knapp. N. Y., 1881. 8 pp., 9 x 6, pap.
- 124 —Argument, before the Senate Committee on Privileges and Elections. May 10th, 1886, on the resolution to inquire as to article written by George F. Spinney, for *New York Times* of April 15, 1886, on Senator Raines; charging an effort to steal the Staten Island water front for the Baltimore & Ohio R. R. Co. N. C. Moak. no place, 1886. 32 + 1 pp., 9 x 6, pap. no title-page.
- 64 —Argument, submitted to the Committee of Commerce, U. S. Senate, in favor of a "Bill to create a permanently deep, wide and straight channel through the Sandy Hook Bar of the Port of New York for the purpose of forming an improved commercial outlet." H. F. Knapp. (46th Cong., 2d Sess.) unpagd, 9 x 6, pap. no title-page.
- Blasting of rocks under water without drilling. B. Maillefert and W. Raasloff. Note: Relative to operations at Hell Gate. no place, 1852. 9 pp., pl., 9 x 6, b. p. no title-page. Nd-1, p. 695.

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- 41 —Communication from the Governor, transmitting the report of the Commissioners, appointed under the Act, Chap. 239, Laws of 1863, relative to protecting the harbors and frontiers against invasion, and to provide for their defence. (Assembly, No. 82. 1864.) Albany, 1864. 50 pp., pl., 9 x 6, pap.
- Currents of New York Bay and Harbor. B. A. Colonna. 1888. (See Y1-42, No. 8, p. 41.)
- 26 —Facts relating to the Department of Docks of the City of New York, and reasons for its continuance as a separate department of the city government. E. T. Lynch. N. Y., 1877. 12 pp., 9 x 6, pap.
- 110 —Harbor of New York. Note: Extracts from the *Scientific American*, July 10th, 1886. Extract from the *New York Times*, Aug. 11th, 1886. Extracts from the *New York Star*, Feb. 10th, 1886. N. Y., 1887. 17 pp., map, 9 x 6, pap.
- 24 —Harbor of New York: Its condition, May, 1873; letter of the Superintendent of the U. S. Coast Survey to the Chamber of Commerce of New York; with the report of Henry Mitchell on the physical survey of the harbor. Benjamin Peirce. N. Y., 1873. 38 pp., pl., 9 x 6, pap.
- Hell Gate and its approaches. U. S.-Coast Survey. 1851. (See Qf-206.)
- 22 —Letter to the Chamber of Commerce relative to the water-front of the City of New York. Simon Stevens. N. Y., 1885. 18 pp., 9 x 6, pap. no title-page.
- 23 —Letter to the Comptroller on plan of bulk-heads and docks for the City of New York. A. W. W. Evans. N. Y., 1881. 25 pp., map, 9 x 6, pap.
- Map showing the high- and low-water mark and the original city grants of lands under water, made to various parties from 1686 to 1873, extending from Battery to Fifty-first Street, Hudson and East Rivers, New York City; also several pier and bulk-head lines established from 1730 to 1873; comp. by Charles K. Graham, Engineer-in-Chief of the Department of Docks. 1873. (See Qf-48.)
- 389 —Minutes of the Board; May, 1870 Apr., 1877. Department of Docks. Note: For Minutes of the Board subsequent to 1877, see Annual reports of the Department. Cc-390. N. Y., 1888. 6 v. in 3, 9 x 6, cl.
- New York entrance. U. S.-Coast Survey. 1867. (See Qf-207.)
- 25 —New York Harbor: Report. H. C. Taylor. N. Y., 1884. 7 pp., 9 x 6, pap.
- 419 —Outline of operations for the removal of the reef at Hallett's Point, Hell Gate, N. Y., and description of steam drilling scow; Brevet Major-General John Newton in charge. U. S.-Corps of Engineers. no place, 1876. unpagcd, 9 x 6, pap.
- 31 —Plan of permanent improvement of the water front on the East River from Grand to Thirty-fourth Street, proposed by the Commissioners. Department of Docks. N. Y., 1888. 58 pp., map, 9 x 6, cl.
- 394 —Preliminary project; the future of New York through the system of submarine building invented by J. Wenmaeker; view of the future quays and docks; with plates illustrating the method of excavation. Jerome Wenmaeker. no place, no date. 9 sheets, 13 x 15, pap.
- Proceedings in relation to the removal of obstructions to the navigation at Hell Gate in the East River; accompanied by a letter from the Superintendent of the Coast Survey transmitting a chart of Hell Gate, with a report from C. H. Davis. New York Chamber of Commerce. (30th Cong., 1st Sess. House mis. doc. No. 53.) no place, 1848. 5 pp., 9 x 6, pap. Af-3, p. 81.
- 53 —Protest from the late Engineer-in-Chief of the Department of Docks, New York City, against needless expenditure of public money for the alleged necessary strengthening of the "Béton en masse" walls of the North River Front. C. K. Graham. N. Y., 1876. 15 pp., 9 x 6, pap.
- 43 —Report in relation to establishing water lines for part of the Harbor of New York. Committee on Commerce and Navigation. (Senate, No. 85.) no place, 1856. 8 pp., map, 9 x 6, pap.
- 138 —Report of Commissioners appointed to ascertain the rights of the State and of riparian owners to the lands lying under water. New Jersey-Legislature. Jersey City, 1865. 74 pp., 9 x 6, pap.
- 136 —Report of Sub-Committee on improvement of the water front. New York City Committee of Seventy. no place, 1895. 15 pp., 8 x 6, pap.
- 153 —Report of the Board of Consulting Engineers, upon the improvement of the New York water front. Department of Docks. N. Y., 1896. 12 pp., 14 x 8, pap. no title-page.
- 39 —Report of the Commission appointed to devise a plan for defending the Harbor of New York. O. W. Childs and others. Note: Commission appointed by the Governor of New York. Albany, 1862. 23 pp., 9 x 6, pap.
- 82 —Report of the Commissioners of the Land Office, relative to New York Harbor encroachments; transmitted to the Senate, Jan. 9th, 1862. Note: Survey of the reclaimed lands along the Hudson and East Rivers. Albany, 1869. 21 + 80 pp., map, facsim., 9 x 6, pap.
- 137 —Report of the Commissioners on the extent and value of lands under water, in the County of Hudson. New Jersey-Legislature. Trenton, 1849. 46 pp., 9 x 6, pap.



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- 42 —Report of the Commissioners, relative to encroachments and preservation of the Harbor of New York. (Senate, No. 3.) Albany, 1856. 163 + 1 pp., 9 x 6, pap.
- 33 —Report of the Committee on Terminal Facilities; together with facts and statistics touching the harbor commerce and trade facilities of the Port and City of New York; by the Assistant Secretary of the Association. New York Cheap Transportation Association. N. Y., 1874. 46 pp., 9 x 6, pap.
- Report of the Committee on Wharves relative to the erection of a great pier in the North River, 1836. (Doc. No. 80.) N. Y., no date. pp. 421-513, 5 maps, 9 x 5, b. p. Ac-139, p. 1.
- 29 —Report of the Engineer-in-Chief of the Department of Docks for the year 1875. N. Y., 1875. 1 v., 9 x 6, pap.
- 63 —Report on the tides and currents of Hell Gate, one of the entrances to New York Harbor; made to the Superintendent of the Coast Survey. Henry Mitchell. Wash., 1869. 14 pp., pl., 12 x 9, pap.
- 30 —Reports to the Commissioners of Docks on the bulkhead walls at Canal and King Streets, North River. John Newton and others. N. Y., 1876. 72 pp., pl., phot., 9 x 6, pap.
- 28 —Resolutions in relation to encroachments made in the Harbor of New York. New Jersey-Legislature. (New York Assembly, No. 104.) Albany, 1855. 3 pp., 9 x 6, pap.
- 27 —Review of the reports made to certain commercial bodies. Department of Docks. Note: Review and refutation of reports of William H. Webb and others on the management of the Department of Docks. N. Y., 1877. 16 pp., 9 x 6, pap.
- Showing the progressive changes in Sandy Hook from 1779 to 1851. U. S.-Coast Survey. 1851. (See Qf-192.)
- 415 —Specifications, etc., for building pier (new number) 38 N. R. Department of Docks. no place, 1877. 17 pp., 14 x 8, pap. no title-page.
- 416 —Specifications, etc., for building wooden pier at foot of Morton Street, to be known as New Pier 42, N. R. Department of Docks. no place, 1875. 20 pp., 14 x 8, pap. no title-page.
- 312 —Specifications, etc., for dredging East Channel at the entrance to New York Harbor. U. S.-Corps of Engineers. N. Y., 1899. 9 pp., 14 x 8, pap. no title-page.
- 236 —Specifications, etc., for dredging in Bay Ridge and Red Hook Channels, New York Harbor. U. S.-Corps of Engineers. N. Y., 1899. 9 pp., 14 x 8, pap. no title-page.
- 292 —Specifications, etc., for dredging in Gowanus Creek Channel, New York Harbor. U. S.-Corps of Engineers. N. Y., 1899. 7 pp., 14 x 9, pap. no title-page.
- 289 —Specifications, etc., for dredging in Wallabout Channel, New York Harbor. U. S.-Corps of Engineers. N. Y., 1899. 7 pp., 14 x 9, pap. no title-page.
- 250 —Specifications, etc., for excavation and removal of Man-o'-War Rock, East River, New York Harbor. U. S.-Corps of Engineers. N. Y., 1899. 7 pp., 14 x 8, pap. no title-page.
- 414 —Specifications, etc., for furnishing granite stones for bulkhead or river wall. Department of Docks. no place, 1878. 14 pp., 14 x 8, pap. no title-page.
- 234 —Specifications, etc., for removal of wreck *David Crockett*, New York Harbor. U. S.-Corps of Engineers. N. Y., 1899. 7 pp., 14 x 8, pap. no title-page.
- Speech on the subject of the rights of riparian owners, delivered before the House of Assembly, State of New Jersey, Apr. 4th, 1866, on the consideration of an act to incorporate "The Hudson River Wet Basin Warehouse Co." D. C. Morris. 1866. (See Ca-61.)
- Tidal levels and flow of currents in New York Bay and Harbor. H. L. Marindin. 1888. (See Y1-42, v. 1, p. 7.)
- 495 —Les travaux de Hell Gate. (John Newton.) Louvain, no date. 20 pp., 10 x 6, pap.
- 90 **NEW YORK STATE.** Annual report upon the improvement of harbors on Lake Ontario east of Oak Orchard, N. Y. U. S.-Corps of Engineers. Wash., 1893. 1 v., 9 x 6, pap.
- 57 **NEWARK BAY.** Chart of Newark Bay. T. R. Gedney. (25th Cong., 3d Sess. House doc. No. 182.) Wash., 1839. 4 pp., map, 9 x 6, pap.
- 326 **NEWBURYPORT HARBOR.** Specifications, etc., for the delivery of rubble-stone in the jetties at Newburyport Harbor, Mass. U. S.-Corps of Engineers. Bost., 1899. 3 pp., 14 x 8, pap. no title-page.
- 204 **NEWHAVEN HARBOR.** Return to an order of the House of Commons for a copy of Captain Washington's last report on the harbor at Newhaven. no place, 1847. 6 pp., map, 13 x 8, b. p. no title-page.
- 328 **NEWPORT HARBOR.** Specifications, etc., for dredging Newport Harbor, R. I. U. S.-Corps of Engineers. Newport, 1899. 6 pp., 13 x 8, pap. no title-page.

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- 109 **NORFOLK HARBOR.** Report in relation to the cost of the proposed improvement of the harbor at Norfolk, Va. S. T. Abert. (45th Cong., 2d Sess. Senate ex. doc. No. 88.) Wash., 1878. 5 pp., map, 9 x 6, pap. no title-page.
- NORTH CAROLINA.** Report on the sounds and estuaries of North Carolina with reference to oyster culture. Francis Winslow. 1889. (See Y1-42, v. 1, p. 51.)
- 262 —Specifications, etc., for dredging and bank protection in waterway, from Norfolk, Va., to the sounds of North Carolina. U. S.-Corps of Engineers. Norfolk, 1899. 9 pp., 14 x 8, pap. no title-page.
- 305 **NORTH POINT HARBOR.** Specifications, etc., for constructing sea walls and embankments at North and Hawkins Points, Md. U. S.-Corps of Engineers. Balt., 1898. 11 pp., 14 x 8, pap. no title-page.
- 228 **NORWALK HARBOR.** Specifications, etc., for dredging in Norwalk Harbor, Conn. U. S.-Corps of Engineers. New London, 1899. 6 pp., 14 x 8, pap. no title-page.
- 377 **OAKLAND HARBOR.** Specifications, etc., for diverting channel for Sausal Creek, Oakland Harbor, Cal. U. S.-Corps of Engineers. San Fran., 1899. 10 pp., 14 x 8, pap. no title-page.
- 180 —Specifications, etc., for dredging at Oakland Harbor, Cal. 1898. U. S.-Corps of Engineers. San Fran., 1898. 6 pp., 14 x 8, pap. no title-page.
- 226 **OCONTO HARBOR.** Specifications, etc., for dredging for improving harbor at Oconto, Wis. U. S.-Corps of Engineers. Milwaukee, 1899. 4 pp., 14 x 8, pap. no title-page.
- 327 **OGDENSBURG HARBOR.** Specifications, etc., for dredging in Ogdensburg Harbor, N. Y. U. S.-Corps of Engineers. Oswego, 1899. 7 pp., 14 x 8, pap. no title-page.
- 98 **OHIO.** Annual report upon the improvement of rivers and harbors on Lake Erie, west of Erie, Pa. U. S.-Corps of Engineers. Note: Appendix to the Annual report of the Chief of Engineers. Wash., 1896-98. 3 v., pl., 9 x 6, pap.
- 18 **OLYMPIA HARBOR.** Specifications, etc., for dredging Olympia Harbor, Wash. U. S.-Corps of Engineers. no place, 1899. 7 pp., 14 x 8, pap. no title-page.
- ONTONAGON HARBOR, MICH.** Preliminary chart of Ontonagon Harbor, Lake Superior. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) 1859. (See Qf-142.)
- 99 **OREGON.** Annual report upon the improvement of certain rivers and harbors in Oregon and Washington. U. S.-Corps of Engineers. Note: Appendix to the Annual report of the Chief of Engineers. Wash., 1891. 1 v., 9 x 6, pap.
- 203 **ORME'S BAY.** First report to the Committee appointed by the Lords of the Treasury, and report from Rear-Admiral Sir J. A. Gordon and Captain Beechey to the Lords of the Admiralty, relative to the best means of communicating between London and Dublin, and the relative capabilities of the Ports of Holyhead, Orme's Bay and Portdynllaen. no place, 1840. 50 pp., pl., maps, 13 x 8, b. p.
- OYSTER BAY.** Oyster or Syosset Bay, L. I. U. S.-Coast Survey. 1847. (See Qf-179.)
- 72 **PANAMA HARBOR.** Port de Panama: Table des marées pour l'année 1885. L. von Göriz. Panama, 1885. unpagéd, 7 x 5, pap.
- 423 **PARIS HARBOR.** Résumé d'une étude sur la création d'un port de mer à Paris. Bouquet de la Grye. Paris, 1882. 27 pp., pl., 11 x 9, pap.
- 304 **PASCAGOULA HARBOR.** Specifications, etc., for removing wreck of schooner *Robert H. Rathburn*, lying in Pascagoula Harbor, Miss. U. S.-Corps of Engineers. Mobile, 1898. 2 pp., 14 x 9, pap. no title-page.
- 232 **PEEKSKILL HARBOR.** Specifications, etc., for dredging in Peekskill Harbor, N. Y. U. S.-Corps of Engineers. N. Y., 1899. 6 pp., 14 x 8, pap. no title-page.
- 191 **PENSACOLA HARBOR.** Improving harbor at Pensacola, Fla.; specifications, etc., for dredging; 1897-98. U. S.-Corps of Engineers. Montgomery, 1897-98. 2 v., 14 x 8, pap. no title-page.
- 205 —Specifications, etc., for building a wooden hull, sea going, hydraulic dredge for harbor at Pensacola, Fla. Montgomery, 1898. 2 v., 8 pl., 12 x 9, pap.
- 196 **PENTWATER HARBOR.** Specifications, etc., for repairing Government Pier at Pentwater, Mich.; 1898-99. U. S.-Corps of Engineers. Grand Rapids, 1898-99. 2 v., 14 by 8, pap. no title-page.
- 204 **PETERHEAD HARBORS, SCOTLAND.** Memorial in regard to the Harbours of Peterhead, in the County of Aberdeen, North Britain; their proposed improvement and extension, and their fitness for being formed into harbours of refuge. Edin., 1844. 7 + 14 pp., 13 x 8, b. p. no title-page.
- 85 **PHILADELPHIA HARBOR.** Annual report upon the improvement of Delaware River, Pa. and N. J., Schuylkill River, Pa., and rivers in Southern New Jersey, etc. U. S.-Corps of Engineers. Note: Appendix to the Annual report of the Chief of Engineers. Wash., 1891. 1 v., 9 x 6, pap.

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- 352 —On the proposed removal of Smith's Island. L. M. Haupt. no place, 1878. pp. 385-395, il., map, 10 x 7, pap.
- 140 —Port of Philadelphia. L. M. Haupt. Phil., 1892. 23 pp., 9 x 6, pap.
- 267 **PIGEON COVE HARBOR.** Specifications, etc., for removing wreck at Pigeon Cove, Mass. U. S.-Corps of Engineers. Bost., 1899. 3 pp., 14 x 8, pap. no title-page.
- 204 **PLYMOUTH HARBOR, ENG.** Report of the Select Committee on Plymouth Breakwater; together with minutes of proceedings, the minutes of evidence, and appendix. no place, 1835. 124 pp., 13 x 8, b. p.
- 204 —Return to two orders of the House of Commons for a copy of Mr. James Walker's report, as made to the Admiralty, in respect to the proposed Sutton Harbour and docks, Plymouth; also copies or extracts of any correspondence, etc., respecting the same. no place, 1846. 5 pp., pl., maps, 13 x 8, b. p. no title-page.
- 339 **PLYMOUTH HARBOR, MASS.** Specifications, etc., for dredging in Plymouth Harbor, Mass. U. S.-Corps of Engineers. Bost., 1899. 3 pp., 14 x 8, pap. no title-page.
- 333 —Specifications, etc., for the construction of rubble-stone rip-rap, Plymouth Harbor, Mass. U. S.-Corps of Engineers. Bost., 1899. 3 pp., 14 x 8, pap. no title-page.
- 306 **POINT WILSON HARBOR.** Specifications, etc., for building wharf at Point Wilson, Wash. U. S.-Corps of Engineers. Seattle, 1898. 10 pp., 14 x 8, pap. no title-page.
- 434 **PONTA DELGADA.** Notice sur le port artificiel de Ponta Delgada en construction à S. Michel, la plus importante des Iles des Açores. Lisbonne, 1873. 31 pp., 10 x 7, pap.
- 277 **PORT CHESTER HARBOR.** Specifications, etc., for dredging and rock excavation in Port Chester Harbor, N. Y. U. S.-Corps of Engineers. N. Y., 1899. 7 pp., 14 x 8, pap. no title-page.
- 297 **PORT CLINTON HARBOR.** Specifications, etc., for reinforcement with stone, and repair of jetties at entrance to Port Clinton Harbor, Ohio. U. S.-Corps of Engineers. Cleveland, 1899. 8 pp., 14 x 9, pap. no title-page.
- 293 —Specifications, etc., for removal of wreck of schooner *Onward* in Port Clinton Harbor, Ohio. U. S.-Corps of Engineers. Cleveland, 1900. 8 pp., 14 x 8, pap.
- 13 **PORT JEFFERSON INLET.** Specifications, etc., for furnishing and placing rip-rap stone in jetties at Port Jefferson Inlet, N. Y. U. S.-Corps of Engineers. no place, 1899. unpag., 14 x 8, pap. no title-page.
- 379 **PORTAGE LAKE HARBOR.** Specifications, etc., for pier extension at Portage Lake, Mich. U. S.-Corps of Engineers. Grand Rapids, 1899. 10 pp., 14 x 8, pap. no title-page.
- 203 **PORTDYNLLAEN HARBOR.** First report to the Committee appointed by the Lords of the Treasury, and report from Rear-Admiral Sir J. A. Gordon and Captain Beechy to the Lords of the Admiralty, relative to the best means of communicating between London and Dublin, and the relative capabilities of the Ports of Holyhead, Orme's Bay and Portdynllaen. no place, 1840. 50 pp., pl., maps, 13 x 8, b. p.
- 203 —Further return to an order of the House of Commons for copies of all reports not yet laid before Parliament from naval officers and civil engineers who have reported on the comparative merits of Holyhead and Portdynllaen as a harbour of refuge for the Channel trade. Great Britain-Lords Commissioners of the Admiralty. no place, 1846. 8 pp., maps, 13 x 8, b. p.
- 203 —Return to an order of the House of Commons for copies of any report and survey of the Harbours of Liverpool, Holyhead and Portdynllaen. Great Britain-Lords Commissioners of the Treasury. no place, 1837. 3 pp., maps, 13 x 8, b. p. no title-page.
- 203 —Return to an order of the House of Commons for copy of report on Holyhead and Portdynllaen Harbours by Captain Back and Captain Fair; and copy of report of James Walker. Great Britain-Lords Commissioners of the Admiralty. no place, 1844. 17 pp., maps, 13 x 8, b. p.
- 204 **PORTLAND HARBOR, ENG.** Bill for constructing a breakwater in Portland Roads. no place, 1825 (?) 32 pp., 13 x 8, b. p. no title-page.
- Brief notices of works: Portland Harbor; the Severn Tunnel; the Forth Bridge; the River Clyde; the River Tyne; the Tower Bridge. L. F. Vernon-Harcourt. 1895. (See Cb-113.)
- 204 —Return to an order of the House of Commons for copies of the reports and plans submitted to the Board of Admiralty for a harbour of refuge and breakwater at the Isle of Portland. no place, 1847. 5 pp., pl., maps, 13 x 8, b. p. no title-page.
- 204 —Suggestions for converting Portland Roads into a harbour. Alexander Lamb. no place, 1825. 12 pp., pl., maps, 13 x 8, b. p.
- 442 **PORTLAND HARBOR, ME.** Specifications, etc., for dredging Portland Harbor, Me. U. S.-Corps of Engineers. Portland, 1900. unpag., 13 x 8, pap.



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- 310 — Specifications, etc., for lumber, coal, iron and other supplies for works in Portland Harbor, Me. U. S.-Corps of Engineers. Portland, 1899. 8 pp., 14 x 8, pap. no title-page.
- PRESQU' ILE.** Harbors of refuge: Presqu' Ile, False Presqu' Ile and Middle Island, Lake Huron. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) 1858. (See Qf-112.)
- PRISONER'S HARBOR.** Reconnaissance of Prisoner's Harbor, Cal., and reconnaissance of Cuyler's harbor, Island of San Miguel, Cal. U. S.-Coast Survey. 1852. (See Qf-122.)
- 254 **PROVINCETOWN HARBOR.** Specifications, etc., for removing wreck from Provincetown Harbor, Mass. U. S.-Corps of Engineers. Bost., 1899. 3 pp., 14 x 8, pap. no title-page.
- 66 **PUGET SOUND.** Notes on Puget Sound; being extracts from notes of a reconnaissance of the proposed route of the Northern Pacific R. R. made in the summer of 1869. Samuel Wilkeson. no place, no date. 47 pp., 9 x 6, pap.
- 14 **QUEBEC HARBOR.** Harbour and dock works, Quebec. Woodford Pilkington. Quebec, 1879. 12 pp., pl., 9 x 6, pap.
- Quebec Railway and Harbor Works. Harbor Commissioners. 1879. (See Ab-96.)
- 101 **QUEENSLAND.** Report from the Engineer; 1890-92. Harbors and Rivers Department. Brisbane, no date. 3 v., 13 x 9, pap. no title-page.
- 425 — Thursday Island jetty head. Harbors and Rivers Department. no place, 1890. pl., 26 x 39, pap. no title-page.
- 286 **RACINE HARBOR.** Specifications, etc., for improving harbor at Racine, Wis. U. S.-Corps of Engineers. Milwaukee, 1899. 7 pp., 14 x 8, pap. no title-page.
- 202 **RAMSGATE HARBOR.** Report; together with the proceedings of the Committee, minutes of evidence, appendix and index. Great Britain Select Committee on Ramsgate and Margate Harbors. no place, 1850. 14 + 219 pp., 2 pl., 13 x 8, b. p.
- 253 **RARITAN BAY.** Specifications, etc., for dredging in Raritan Bay and South River, N. J. U. S.-Corps of Engineers. N. Y., 1899. 7 pp., 14 x 8, pap. no title-page.
- 447 — Specifications, etc., for removal of wreck *Satanella*, in Raritan Bay, N. J. U. S.-Corps of Engineers. N. Y., 1900. 7 pp., 14 x 8, pap. no title-page.
- RICHMOND'S ISLAND HARBOR.** Richmond's Island Harbor, Me. U. S.-Coast Survey. 1851. (See Qf-187.)
- 266 **ROCK POINT HARBOR.** Specifications, etc., for building a wharf at Rock Point, Md. U. S.-Corps of Engineers. Balt., 1899. 9 pp., 14 x 8, pap. no title-page.
- 257 **ROCKLAND HARBOR.** Specifications, etc., for dredging in Rockland Harbor, Me. U. S.-Corps of Engineers. Portland, 1898. 7 pp., 14 x 8, pap. no title-page.
- 258 — Specifications, etc., for ledge excavation in Rockland Harbor, Me. U. S.-Corps of Engineers. Portland, 1898. 7 pp., 14 x 8, pap. no title-page.
- 303 — Specifications, etc., for removing wreck of schooner *William H. Jones*. U. S.-Corps of Engineers. Portland, 1898. 6 pp., 14 x 9, pap. no title-page.
- ROTTERDAM HARBOR.** Port of Rotterdam. G. J. de Jongh. (International Cong. on Inland Navigation, 6th.) The Hague, 1894. 31 pp., map, 10 x 7, pap. Ca-6.12.
- 159 — Les ports maritimes de la Hollande: Rotterdam et Amsterdam. Baron É. T. Quinette de Rochemont. Paris, 1890. 132 pp., pl., 9 x 6, pap.
- 83 **ROUEN HARBOR.** Port of Rouen: An extract from the registers kept at the harbor-office, during the last six months of the year 1885. Rouen Chamber of Commerce. no place, no date. unpag., 10 x 8, pap.
- 314 **SABINE PASS HARBOR.** Specifications, etc., for building a dredge-boat for improving harbor at Sabine Pass, Tex. U. S.-Corps of Engineers. New Orleans, 1899. 2 v., 14 x 8, pap. no title-page.
- 357 — Specifications, etc., for dredging for improving harbor at Sabine Pass, Tex. U. S.-Corps of Engineers. New Orleans, 1899. 10 pp., 14 x 8, pap. no title-page.
- 261 — Specifications, etc., for improving harbor at Sabine Pass, Tex. U. S.-Corps of Engineers. New Orleans, 1898. 9 pp., 14 x 8, pap. no title-page.
- SAGINAW BAY.** Preliminary chart; lower reach of Saginaw River and bar in front, Saginaw Bay, Lake Huron. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) 1856. (See Qf-161.)
- Saginaw Bay and part of Lake Huron. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) 1860. (See Qf-163.)
- 359 **ST. JOSEPH HARBOR.** Specifications, etc., for pier extension at St. Joseph, Mich. U. S.-Corps of Engineers. Grand Rapids, 1899. 8 pp., 14 x 8, pap. no title-page.

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- 349 —Specifications, etc., for removing wreck of steamer *City of Duluth* from St. Joseph Harbor, Mich. U. S.-Corps of Engineers. Detroit, 1898. 7 pp., 14 x 8, pap. no title-page.
- 287 —Specifications, etc., for repairing Government Pier at St. Joseph, Mich. U. S.-Corps of Engineers. Grand Rapids, 1899. 7 pp., 14 x 8, pap. no title-page.
- 206 —Specifications, etc., for the improvement of St. Joseph Harbor, Mich. U. S.-Corps of Engineers. Detroit, 1875. 11 pp., 10 x 8, pap.
- ST. LAWRENCE, GULF OF.** The River and Gulf of St. Lawrence, Newfoundland, Nova Scotia and the Banks adjacent; from the English Admiralty and French Marine Surveys. U. S.-Hydrographic Office. 1868. (See Qf-210.)
- ST. LOUIS BAY.** Preliminary chart of the west end of Fond du Lac of Lake Superior, embracing Superior, St. Louis and Allouez Bays and the St. Louis River to the head of navigation. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) 1863. (See Qf-104.)
- 182 **ST. LOUIS HARBOR.** Information required by a resolution of the House of Representatives respecting the Harbor of St. Louis. R. E. Lee. (25th Cong., 2d Sess. House doc. 298.) Wash., 1838. 7 pp., map, 9 x 6, pap.
- Messages, with accompanying reports. St. Louis-Mayor. (See Os30-3.1.)
- SAN DIEGO BAY.** San Diego entrance and approaches, Cal. U. S.-Coast Survey. 1851. (See Qf-184.)
- 279 **SAN DIEGO HARBOR.** Specifications, etc., for improving harbor at San Diego, Cal. U. S.-Corps of Engineers. Los Angeles, 1899. 7 pp., 14 x 8, pap. no title-page.
- 67 **SAN FRANCISCO HARBOR.** Report and table of soundings along the water front of the City of San Francisco; made by direction of the Board of State Harbor Commissioners, Mar., 1866. T. R. Brooks. San Fran., 1866. 8 pp., 9 x 6, pap.
- 75 —Report upon the removal of Blossom Rock, in San Francisco Harbor, Cal. R. S. Williamson and W. H. Huer. Wash., 1871. 40 pp., 11 pl., 12 x 9, cl.
- 240 —Specifications, etc., for removing rocks in San Francisco Harbor, Cal. U. S.-Corps of Engineers. San Fran., 1899. 6 pp., pl., 14 x 8, pap. no title page.
- SAN LUIS OBISPO HARBOR.** Reconnaissance of the Harbors of Santa Cruz, San Simeon, Coxo and San Luis Obispo, Cal. U. S.-Coast Survey. 1852. (See Qf-166.)
- 251 —Specifications, etc., for improving harbor at San Luis Obispo, Cal. U. S.-Corps of Engineers. Los Angeles, 1899. 5 pp., 14 x 8, pap. no title-page.
- 103 **SAN PEDRO HARBOR.** Deep water harbor in Southern California: Port Los Angeles vs. San Pedro: Full report of oral testimony at public hearings in Los Angeles, Cal. U. S.-Deep Water Harbor Board. Los Angeles, 1896. 237 + 1 pp., 10 x 7, pap.
- Reconnaissance of San Pedro Harbor, Cal. U. S.-Coast Survey. 1852. (See Qf-121.)
- 88 —Report of the Board appointed to locate a deep-water harbor for commerce and of refuge at Port Los Angeles or at San Pedro, Cal. U. S.-Deep Water Harbor Board. (55th Cong., 1st Sess. Senate doc. No. 18.) Wash., 1897. 330 pp., maps, 9 x 6, cl.
- 181 —Specifications, etc., for constructing a breakwater at San Pedro, Cal. U. S.-Corps of Engineers. San Fran., 1898. 7 pp., maps, 14 x 8, pap. no title-page.
- SAN SIMEON HARBOR.** Reconnaissance of the Harbors of Santa Cruz, San Simeon, Coxo and San Luis Obispo, Cal. U. S.-Coast Survey. 1852. (See Qf-166.)
- SANDUSKY BAY.** Chart of Sandusky Bay, Ohio. U. S.-Corps of Engineers. (Survey of the Northern and North Western Lakes.) 1874 (?) (See Qf-101.)
- 49 **SANDUSKY HARBOR.** Report and plan of the survey of the Harbor of Sandusky, Ohio. Campbell Graham. (25th Cong., 2d Sess. House doc. 399.) Wash., 1838. 2 pp., map, 9 x 6, pap.
- 224 —Specifications, etc., for dredging, constructing jetty and protection for bar, at Sandusky Harbor, Ohio. U. S.-Corps of Engineers. Cleveland, 1899. 13 pp., 14 x 8, pap. no title-page.
- 307 **SANDY BAY HARBOR.** Specifications, etc., for rubble stone, Sandy Bay, Mass. U. S.-Corps of Engineers. Bost., 1899. 2 pp., 14 x 8, pap. no title-page.
- SANTA CRUZ HARBOR.** Reconnaissance of the Harbors of Santa Cruz, San Simeon, Coxo and San Luis Obispo, Cal. U. S.-Coast Survey. 1852. (See Qf-166.)
- 217 **SAUGATUCK HARBOR.** Specifications, etc., for the improvement of Saugatuck Harbor, Mich. U. S.-Corps of Engineers. Detroit, 1875. 10 pp., 10 x 8, pap.
- 470 **SAVANNAH HARBOR.** General court martial of O. M. Carter, convened at Savannah, Ga., Jan. 12th, 1898; charges, abstract of evidence, and briefs of arguments. no place, no date. various pagings, 9 x 6, cl.

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- 276 **SCITUATE HARBOR.** Specifications, etc., for dredging in Scituate Harbor, Mass. U. S.-Corps of Engineers. Bost., 1899. 3 pp., 14 x 8, pap. no title-page.
- SEAL HARBOR.** Specifications, etc., for removing wrecks *Old Swan*, Marsh River, and *Vicksburg*, Seal Harbor, Me. U. S.-Corps of Engineers. 1900. (See Cb-449.)
- 12 **SHEBOYGAN HARBOR.** Advertisement, specifications and proposal for improving harbor at Sheboygan, Wis. U. S.-Corps of Engineers. Milwaukee, 1899. unpag., 14 x 8, pap. no title-page.
- SHEFFIELD ISLAND HARBOR.** Harbors of Sheffield Island and Cawkin's Island, Conn. U. S.-Coast Survey. 1848. (See Qf-182.)
- SHIP ISLAND HARBOR.** Cat and Ship Island Harbors, Miss. U. S.-Coast Survey. 1850. (See Qf-188.)
- SHOALWATER BAY.** Preliminary survey of Shoalwater Bay, Wash. U. S.-Coast Survey. 1853. (See Qf-243.)
- SOUTH AUSTRALIA.** Reports on harbors. (See Dc-956, Annual reports of the Public Works Department.)
- 280 **SOUTH HAVEN HARBOR.** Specifications, etc., for crib work and repairs to Government Piers at South Haven, Mich. U. S.-Corps of Engineers. Grand Rapids, 1899. 10 pp., 14 x 8, pap. no title-page.
- 398 — Specifications, etc., for extension and repair of pier at South Haven, Mich. U. S.-Corps of Engineers. Grand Rapids, 1900. 10 pp., 14 x 8, pap. no title-page.
- 210 — Specifications, etc., for the improvement of South Haven Harbor, Mich. U. S.-Corps of Engineers. Detroit, 1875. 10 pp., 10 x 8, pap.
- 448 **SOUTH WEST PASS.** Specifications and drawings in detail for an iron-pile light-house at the South West Pass of the mouth of the Mississippi River. U. S.-Light-house Board. Wash., 1861. 25 pp., 27 pl., 9 x 6, (pl. 22 x 29), pap.
- 139 **SOUTHAMPTON HARBOR.** Il Porto e i docks di Southampton. Luigi Luiggi. Roma, 1883. 50 pp., pl., 9 x 6, pap.
- 285 **STAMFORD HARBOR.** Specifications, etc., for dredging in Stamford Harbor, Conn. U. S.-Corps of Engineers. New London, 1899. 6 pp., 14 x 8, pap. no title-page.
- 294 **STOCKTON HARBOR.** Specifications, etc., for dredging in Stockton and Mormon Channels, Cal. U. S.-Corps of Engineers. San Fran., 1899. 4 pp., 14 x 9, pap. no title-page.
- SUPERIOR BAY.** Preliminary chart of the west end of Fond du Lac of Lake Superior, embracing Superior, St. Louis and Allouez Bays and the St. Louis River to the head of navigation. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) 1863. (See Qf-104.)
- 204 **SUTTON POOL HARBOR.** Return to an order of the House of Commons for copy of the report of the surveying officer to the Admiralty, on the Sutton Harbour Improvement Bill. no place, 1847. 15 pp., pl., 13 x 8, b. p. no title page.
- 405 **SWEDEN.** Die Sundhöfen Dänemarks und Schwedens. Christian Havestadt• Ber., 1880. 14 pp., pl., map, 11 x 7, pap.
- 249 **TAMPA BAY.** Improving Tampa Bay, Fla.; specifications, etc., for dredging. U. S.-Corps of Engineers. Tampa, 1899. 10 pp., 13 x 8, pap. no title-page.
- 375 — Specifications, etc., for removing wreck of schooner *Henry Stanberry*, in Tampa Bay, Fla. U. S.-Corps of Engineers. Tampa, 1899. 10 pp., 14 x 8, pap. no title-page.
- TARPAULIN COVE.** The Harbor of Holmes' Hole and the Harbor of Tarpaulin Cove, Mass. U. S.-Coast Survey. 1847. (See Qf-118.)
- TAWAS HARBOR.** Preliminary chart of Tawas Harbor, Harbor of refuge, Lake Huron. U. S.-Bureau of Topographical Engineers. 1856. (See Qf-154.)
- THUNDER BAY.** Thunder Bay, Lake Huron. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) 1858. (See Qf-153.)
- 350 **TOLEDO HARBOR.** Specifications, etc., for dredging straight channel through Maumee River and Bay, and for constructing a dike between turnout channels, Toledo Harbor, Ohio. U. S.-Corps of Engineers. Cleveland, 1899. 13 pp., 14 x 8, pap. no title-page.
- 354 **TORONTO HARBOR.** Report, by the Chief Engineer of the Department of Public Works, on the "Denison Hydrograph" put up on Queen's Wharf, Western Entrance, Toronto Harbor, May, 1898. Ottawa, 1898. 7 pp., pl., 10 x 7, pap.
- Report upon the Harbor of Toronto. J. B. Eads. Note: Relates to the proposed improvement of the harbor. 1884. (See Zb-61, p. 377.)
- 385 **TRIESTE HARBOR.** Hafenbau in Triest: Monographie enthaltend die Darstellung, der Wichtigsten, auf den Bau bezüglichen Momente. Friedrich Bömches. Triest, 1875. 9 + 10 pp., pl., 20 x 14, cl.
- 432 — Le nouveau port de commerce à Trieste. no place, 1876 (?) 5 pp., pl., 11 x 9, pap. no title-page.



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- 229 **TWO RIVERS HARBOR.** Specifications, etc., for dredging for improving harbor at Two Rivers, Wis. U. S.-Corps of Engineers. Milwaukee, 1899. 3 pp., 14 x 8, pap.
- 420 **UNITED STATES.** Beskrivelse af det i Nordamerika anvendte materiel til uddybning i floder og havne. H. C. V. Møller. Kjøbenhavn, 1885 (?) 12 pp., pl., 11 x 9, pap.
- 134 —Breakwater construction on the American coast. L. Y. Schermerhorn. 24 pp., pl., 9 x 6, pap. no title-page.
- 371 —The civil engineer and national public works. G. Y. Wisner. no place, 1898 (?) 11 pp., 9 x 6, pap.
- 373 —Government engineering defended. W. R. King. no place, 1892 (?) 11 pp., 9 x 6, pap. no title-page.
- 87 —Internal improvements: their value to the country, and to the individual farmer and laborer: Speech delivered in the Senate of the United States, 1886. Warner Miller. Wash., 1886. 29 pp., 9 x 6, pap.
- 164 —The late attacks upon the Coast and Geodetic Survey. Phil., 1884. 52 pp., 9 x 6, pap.
- 114 —Laws of the United States relating to public works for the improvement of rivers and harbors, from Aug. 11th, 1790, to Aug. 14th, 1876; compiled in the office of the Chief of Engineers, U. S. Army. J. G. Parke, comp. Wash., 1877. 251 pp., 9 x 6, sh.
- La navigation aux États-Unis par H. Vétillart: Rapport de mission, renseignements historiques, financiers, descriptifs et statistiques sur les ports et les voies navigables. France-Ministère des Travaux Publics. 1892. (See Cfe-40.)
- Notes on the lake harbors of the United States. Sir C. A. Hartley. 1875. (See Cb-233, p. 59.)
- 123 —On the river and harbor bills of the United States Congress. Clemens Herschel. no place, 1885. 16 pp., 9 x 6, pap.
- Proposed change of plan in the execution of all river and harbor improvements: The organization of a civil bureau of harbors and waterways; arguments on the Cullom-Breckinridge Bill. Engineers' Club of St. Louis. 1888. (See Sa3-43.7.)
- Reorganization of national public works. Council of Engineering Societies on National Public Works. 1888. (See Ca-64.)
- Report of the Committee upon the navigable draught of entrances of the ports of the United States. W. T. Sampson and C. F. Goodrich. 1886. (See Lc-8, p. 169.)
- 162 —Report on the progress of the American Coast Survey, up to the year 1858; by the Committee of Twenty, appointed at the Montreal meeting, Aug., 1857. American Association for the Advancement of Science. no place, no date. 88 pp., 9 x 6, pap.
- 356 —Report upon the exhibit of the Lighthouse Board at the World's Columbian Exposition held at Chicago, 1893. A. B. Johnson. no place, no date. pp. 221-262, il., pl., 9 x 6, pap.
- River and harbor bills: A paper submitted to the American Academy of Political and Social Science. E. R. Johnson. no date. (See Cb-140.)
- 368 —Sketch of the civil engineering of North America. David Stevenson. Lond., 1838. 320 pp., il., 14 pl., map, 9 x 6, cl.
- Statements of L. E. Cooley and others, representing the Council of Engineering Societies on National Public Works, advocating the passage of a bill for the establishment of a bureau to be known as the Bureau of Harbors and Waterways; introduced in the Senate Jan. 16th, 1888. (See Ca-62.)
- 169 —Travaux publics des États-Unis d'Amérique en 1870: Rapport de mission, par Emil Malézieux. France-Ministère des Travaux Publics. Paris, 1873. 2 v., 61 pl., 12 x 9, ¾ cl.
- 372 —Worthless government engineering. G. Y. Wisner. no place, 1892. pp. 427-434, 9 x 6, pap. no title-page.
- UNITED STATES—BUREAU OF TOPOGRAPHICAL ENGINEERS.** Annual report of the operations of the Bureau during the year 1839. (26th Cong., 1st Sess. Senate No. 58.) Wash., 1840. 1 v., 9 x 6, b. p. no title-page. Cfb-6, p. 205.
- 148 —Same; 1845. 1 v., 9 x 6, b. p.
- Same; 1848. 1 v., 9 x 6, b. p. Qe-75, p. 421.
- 44 **UNITED STATES—COAST AND GEODETIC SURVEY.** Catalogue of charts; 1880. Wash., 1880. 1 v., 10 x 8, pap.
- 93a **UNITED STATES—CORPS OF ENGINEERS.** Analytical and topical index to the reports of the Chief of Engineers and the officers of the Corps of Engineers, U. S. Army, upon works and surveys for river and harbor improvement, 1866-92. Wash., 1881-95. 3 v., 9 x 6, cl.
- 93 —Annual report of the Chief of Engineers to the Secretary of War; 1866-99. Wash., 1866-99. 34 v. in 117, pl., maps, 9 x 6, cl.

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- Letter from the Chief of Engineers, transmitting certain reports of examinations of rivers and harbors under the Act of Mar. 3d, 1873. (43d Cong., 1st Sess. House ex. doc. No. 84.) Wash., 1874. 73 pp., 9 x 6, b. p. Cfi-2, p. 531.
- Map showing the location of works and surveys for river and harbor improvement; compiled for the index to the reports of the Chief of Engineers, under the direction of Henry M. Robert. 1879. (See Qf-244.)
- Report of the Chief Engineer; 1847-1848. 1848. (See Zj-64, pp. 98 and 635.)
- Same; 1851. (See Zj-26, Message, 1850, p. 342.)
- 120 —Report of the Chief of Engineers upon the appropriations and expenditures for rivers and harbors from 1781 to 1883. (48th Cong., 1st Sess. House ex. doc. No. 64.) Wash., 1884. 3 + 292 pp., 12 x 9, cl. no title-page.
- UNITED STATES—ENGINEER DEPARTMENT.** Annual report from the Chief Engineer; 1886. Wash., 1886. 1 v., 9 x 6, b. p. Cfb-9, p. 78.
- Same; 1887. 1 v., 9 x 6, b. p. Cfh-5, p. 307.
- 364 **UNITED STATES—LIGHTHOUSE BOARD.** Annual report to the Secretary of the Treasury; 1851-Je., 1899. Note: Reports, 1852-67, 1869-Je., 1871, Je., 1882-Je., 1888 wanting. Wash., 1852-99. 29 v., pl., maps, 9 x 6, cl.
- 173 —List of beacons, buoys and day-marks; Fourth Lighthouse District, embracing the seacoasts, bays, harbors and rivers, from a point on the coast opposite the mouth of the Shrewsbury River, N. J., to include Metomkin Inlet, Va., 1892. Wash., 1893. 47 pp., 10 x 7, pap.
- 367 —List of beacons, buoys, stakes and other day-marks in the First Lighthouse District. Wash., 1888. 54 pp., 12 x 9, pap.
- 366 —List of beacons, buoys, stakes and other day-marks in the Second Lighthouse District. Wash., 1888. 65 pp., 12 x 9, pap.
- 365 —List of beacons, buoys, stakes and other day-marks in the Fifth Lighthouse District; corrected to Aug. 1st, 1885. Wash., 1885. 73 pp., 12 x 9, pap.
- 413 —List of lighthouses, lighted beacons, and floating lights, of the Atlantic, Gulf and Pacific Coasts of the United States. Wash., 1860. 71 pp., 9 x 6, pap.
- 174 —List of lights and fog signals on the Atlantic and Gulf Coasts of the United States, 1893. Wash., 1893. 129 pp., il., 10 x 7, pap.
- 189 —Manual of light-house engineering; embracing plans of towers, light vessels, beacons, buoys and other aids to navigation; exhibiting the present system of lenses, lamps, implements, etc., employed in the lighthouse establishment of the United States. Note: Text wanting. no place, 1869. 1 v., pl., 14 x 12, ½ mor.
- 387 —Plates of buoys and buoy-equipments, and details of lighthouses and lighthouse-equipments of the United States Lighthouse Establishment. Note: Incomplete. N. Y., 1871(?) 95 + 48 pl., 24 x 33, pap. no title-page.
- 391 —Plates relating to lighthouses and lighthouse equipment in the United States. Wash., 1871-77. unpag., pl., 24 x 19, pap. no title-page.
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- 444 —El Puerto de Veracruz: Memoria escrita para la Asociación de Ingenieros y Arquitectos de México. L. E. Villaseñor. Mexico, 1890. 2 v., pl., maps, tab., 9 x 6 (pl. 17 x 12), pap.
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- 99 **WASHINGTON.** Annual report upon the improvement of certain rivers and harbors in Oregon and Washington. U. S.-Corps of Engineers. Note: Appendix to the Annual report of the Chief of Engineers. Wash., 1891. 1 v., 9 x 6, pap.

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- 111 — Potomac water front at Washington, D. C. W. R. Hutton. no place, 1882. 12 pp., 9 x 6, pap.

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- 108 — Report upon a survey of the Potomac River in the vicinity of Washington, with reference to the improvement of navigation, the establishment of harbor lines, and the raising of the flats; also the preliminary report of a Board of Engineer Officers on the same subject. S. T. Abert. (47th Cong., 1st Sess. Senate ex. doc. No. 126.) Wash., 1882. 25 pp., maps, 9 x 6, pap.

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- 400 **WHITE LAKE HARBOR.** Specifications, etc., for extension and repair of piers at White Lake, Mich. U. S.-Corps of Engineers. Grand Rapids, 1900. 8 pp., 14 x 8, pap. no title-page.

- 242 — Specifications, etc., for repairing Government Pier at White Lake, Mich. U. S.-Corps of Engineers. Grand Rapids, 1899. 8 pp., 14 x 8, pap. no title-page.

- 212 **WHITE RIVER HARBOR.** Specifications, etc., for the improvement of White River Harbor, Mich. Note: Extension of South Pier at White River Harbor. Detroit, 1875. 11 pp., 10 x 8, pap.

- 59 **WILMINGTON HARBOR, CAL.** Senate concurrent resolution relative to the erection of a breakwater at Wilmington Harbor; to which is appended a report and map prepared by Gen. B. S. Alexander, U. S. A. California-Senate. Sacramento, 1870. 11 pp., pl., map, 9 x 6, pap.

- 348 **WILMINGTON HARBOR, DEL.** Specifications, etc., for dredging in Wilmington Harbor and Christiana River, Del. U. S.-Corps of Engineers. Wilmington, 1898-99. 2 v., 14 x 8, pap. no title-page.

- 322 **WOODS HOLE HARBOR.** Specifications, etc., for dredging and removing bowlders at Woods Hole Harbor, Mass. U. S.-Corps of Engineers. Newport, 1899. 6 pp., 13 x 8, pap. no title-page.

- 302 **YAQUINA BAY.** Specifications, etc., for furnishing labor and materials and constructing jetties for improving Yaquina Bay, Ore. U. S.-Corps of Engineers. Portland, 1898. 10 pp., 14 x 8, pap. no title-page.

**YMUIDEN HARBOR, NETHERLANDS.** Map showing Amsterdam's new harbour, Ymuiden, in connexion with other harbours. no date. (See Qf-137.)**WATERWAYS—LAKES.****Cd****BLACK SEA.** New map of the Black Sea, Caucasus, Crimea, etc.; with enlarged plans of Sevastopol as seen by the officers of H. M. S. *Retribution*, 6th Jan., 1854; and the Bosphorus. W. & A. K. Johnston, pub. 1854. (See Qf-487.)**CANADA.** Plans of various lakes and rivers between Lake Huron and the River Ottawa, to accompany the geological reports for 1853, '54, '55, '56. 1857. (See Yh-37.)**CAYUGA LAKE.** Cayuga Lake, N. Y., surveyed by the senior and junior classes from 1874 to '78. Cornell University-Engineer Department. 1884. (See Qf-322.)**ERIE, LAKE.** Chart of Buffalo Harbor and head of Niagara River with the outlet of Lake Erie. U. S.-Bureau of Topographical Engineers. 1856 (?) (See Qf-100.)

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- 13 **INTERNATIONAL DEEP WATERWAYS ASSOCIATION.** Proceedings of the Annual Convention; 1st; 1895. Cleveland, 1895. 1 v., 9 x 6, pap.



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- Foreign and coastwise commerce of the Great Lakes, St. Mary's Falls Canal, the Detroit River, Straits of Mackinaw and of the Mississippi River. U. S.-Bureau of Statistics. 1892. (See Zd-16, Annual report, 1890-91, Pt. 2.)
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  - South end of Lake Huron and head of the St. Clair River. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) 1859 (?) (See Qf-107.)
  - Straits of Mackinac with the approaches thereto from Lakes Huron and Michigan and the entrance by the Détour passage to the St. Mary's River; from trigonometrical surveys under the Direction of the Topographical Bureau of the War Department. U. S.-Bureau of Topographical Engineers. 1874 (?) (See Qf-70.)

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- 26 **JOHNSON'S BAYOU.** Specifications, etc., for improving Johnson's Bayou, La. U. S.-Corps of Engineers. New Orleans, 1899. 8 pp., 14 x 8, pap. no title-page.
- 28 **LAFOURCHE, BAYOU.** Specifications, etc., for improving Bayou Lafourche, La. U. S.-Corps of Engineers. New Orleans, 1898-99. 2 v., 14 x 8, pap. no title-page.
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- North end of Green Bay, the islands at the entrance, and the N. W. shore of Lake Michigan. U. S.-Corps of Engineers. (Survey of the Northern and North Western Lakes.) 1864. (See Qf-111.)
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- Chart of St. Clair Flats, showing also the improvement of the South Pass now being effected by the United States. U. S.-Bureau of Topographical Engineers. 1857 (?) (See Qf-105.)
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- Plan of part of the north shore of Lake Superior, showing Thunder and Black Bays, etc. Canada-Department of Crown Lands. 1873. (See Qf-215.)
- Preliminary chart of part of Lake Superior; comprising the data obtained up to the close of field operations in 1867. U. S.-Corps of Engineers. Note: Map of the eastern part of Lake Superior. (Survey of the Northern and North Western Lakes.) 1868. (See Qf-129.)
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- 7 **WINNIBIGOSHISH, LAKE.** Specifications, etc., for furnishing cement for Lake Winnibigoshish Dam. U. S.-Corps of Engineers. St. Paul, 1898. 6 pp., 14 x 8, pap. no title-page.
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- 11 **DARCY, HENRI and HENRI BAZIN.** Recherches expérimentales relatives aux remous et à la propagation des ondes. Paris. 1865. 2 v. in 1, 5 pl., 13 x 11, 1/2 ro.
- 27 **DAVIS, C. H.** Law of deposit of the flood tide, its dynamical action and office. Wash., 1852. 13 pp., 13 x 10, pap.
- 1 **EMY, A. R.** Du mouvement des ondes et des travaux hydrauliques maritimes. Paris, 1831. 2 v., 11 x 8, pap.
- 12 **GIESELER, E. A.** On tidal theory and tidal predictions. Phil., 1885. 60 + 1 pp., 9 x 6, pap.
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- 17 **FULTON, ROBERT.** Treatise on the improvement of canal navigation, exhibiting the numerous advantages to be derived from small canals and boats of 2 to 5 ft. wide . . . with a description of the machinery for facilitating conveyance by water through the most mountainous countries, independent of locks and aqueducts . . . and designs for aqueducts and bridges of iron and wood. Lond., 1796. 144 pp., 17 pl., 11 x 9,  $\frac{3}{4}$  sh.
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- 20 — Inland navigation; or, Select plans of the several navigable canals throughout Great Britain; accompanied with abstracts of the different acts of Parliament relative to them, likewise the width, depth, length and number of locks on each, with the principal articles of carriage. John Cary. Lond., 1795. 132 pp., maps, 13 x 10,  $\frac{3}{4}$  cf.
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- 13 **MANCHESTER SHIP CANAL.** Inland transport and the Manchester Ship Canal. *Scottish Review*. Paisley, 1866. 22 pp., 8 x 5, pap.
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- Laws in relation to the Erie and Champlain Canals; together with the annual reports of the Canal Commissioners, and other documents requisite for a complete official history of those works. 1825. (See Cff-3.)
- 8 — Letter to Brockholst Livingston, Esq., on the lake-canal policy of the State of New York; with a supplement and additional documents. Robert Troup. Albany, 1822. various pagings, 9 x 6, pap.
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- 24 **NORTH SEA-BALTIC CANAL.** Der Nord-Ostsee Kanal; seine Entstehungsgeschichte, sein Bau und seine Bedeutung in wirtschaftlicher und militärischer Hinsicht. Ber., 1893. 21 pp., pl., 10 x 7, bds.
- 14 **PANAMA CANAL.** Its history, its political aspects and financial difficulties. J. C. Rodrigues. Lond., 1885. 248 pp., 8 x 5, cl.  
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- 23 **ST. DIZIER À WASSY, CANAL DE.** Notice sur le Canal de St. Dizier à Wassy. Compagnie des Forges de Champagne et du Canal de St. Dizier à Wassy. St. Dizier, 1892. 22 pp., 8 x 6, pap.
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- 5 **SUEZ CANAL.** Maritime Canal of Suez: Brief memoir of the enterprise from its earliest date, and comparison of its probable results with those of a ship canal across Darien. J. E. Nourse. Wash., 1869. 57 pp., maps, por., 9 x 6, pap.
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**WATERWAYS - CANALS—LOCATION.****Cfb**

- 104 **AMSTERDAMSCH KANAALMAATSCHAPPIJ.** Beraadslagingen over het voorloopig ontwerp eener open verbinding van Amsterdam met de Noordzee. A. Huet. Te 's-Gravenhage, 1893. 28 pp., pl., 13 x 10, pap.
- 103 —Voordracht ter toelichting van het voorloopig ontwerp eener open verbinding van Amsterdam met de Noordzee; in voldoening aan de tot dat lid gerichte uitnoodiging van het Instituut volgens besluit van de vergadering van 9 Sept., 1890. A. Huet. Te 's-Gravenhage, 1893. 67 pp., maps, 13 x 10, pap.
- 102 —De wenschelijkheid en uitvoerbaarheid eener open doorgraving van Holland op zijn smalst; mededeeling over de gevolgen der doorgraving van Panama voor den handel en de scheepvaart van Amsterdam. A. Huet. Te 's-Gravenhage, 1884. 22 pp., maps, 13 x 10, pap.
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- 156 **BAIE VERTE CANAL.** Comparative profiles of the several lines surveyed for a canal to connect the waters of the Bay of Fundy with the Northumberland Straits. Samuel Keefer. Ottawa, 1873. Scales: vertical, 40 ft. to 1 in.; horizontal, 2000 ft. to 1 in.
- Our canals: Letters addressed to the Editor of the *Mail*, on the subject of the Baie Verte and Welland Canals. Samuel Keefer. Lond., 1874. 32 pp., 9 x 6, b. p. Cfb-80, p. 681.
- Report of the Chief Engineer on the construction of a canal between the Gulf of St. Lawrence and the Bay of Fundy. Canada-Department of Public Works. 1874. (See Cfi-15.)
- 46 —Report on Bay Verte Canal, submitted as supplementary annual report of the Minister of Public Works. Samuel Keefer. Ottawa, 1873. 33 pp., 10 x 7, pap.
- 53 **BARATARIA SHIP CANAL.** Plan of Barataria Ship Canal: from the Mississippi River at New Orleans to deep water in the Gulf of Mexico at Fort Livingston. John Cowdon. no place, 1876. sheet, 38 x 18, pap.
- BLACK RIVER CANAL.** Report in relation to the survey of the Black River Canal. New York-Canal Commissioners. no place, 1835. 72 pp., 9 x 6, b. p. no title-page. Cfh-10, p. 95.
- Reports on the survey in continuation of the Black River Canal: transmitted to the New York Legislature, by the Canal Commissioners. E. H. Brodhead and J. S. Stoddard. 1840. (See Cfh-7.)
- BRIARE, CANAL DE.** Cartes des Canaux d'Orléans, de Briare, et de Loing; gravées par les ordres de son Altesse Serenissime, Monseigneur le Duc d'Orléans: Ce recueil contient une carte générale des trois canaux, 8 cartes du Canal d'Orléans, 7 cartes du Canal de Briare, 5 cartes du Canal de Loing. Latré. no date. (See Qf-498.)
- 152 **CALEDONIAN CANAL.** Maps, profile, and drawings of the Caledonian Canal. no place, no date. map, pl., various sizes, cl.
- CANADA.** Canadian waterways from the Great Lakes to the Atlantic. T. C. Keefer. (World's Columbian Water Commerce Cong.) Bost., 1893. 18 pp., pl., 10 x 6, pap. Ca-31.9.
- 95 —Enlarged waterway between the Great Lakes and the Atlantic Seaboard. E. L. Corthell. Montreal, 1891. 48 pp., map, 9 x 6, pap.
- 4 —Notes on some of the chief navigable rivers and canals in the United States and Canada; made for the Government of Madras during a tour in 1876. G. T. Walch. Madras, 1877. 2 v., pl., maps, 10 x 6, ¾ cf.
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- 97 —Water transportation and freight rates. James Fisher. Brandon, 1894. 34 pp., 9 x 6, pap.
- Waterways of Canada. Sandford Fleming. (International Cong. on Inland Navigation, 4th.) 1890. (See Ca-4.1, p. 167.)
- CANADA—CANAL COMMISSION.** Letter from the Canal Commissioners respecting the improvement of the inland navigation of the Dominion of Canada. 1871. (See Cfi-24.)
- 7 **CANADA—DEPARTMENT OF PUBLIC WORKS.** Report of the Chief Engineer on the enlargement of the Welland Canal. Ottawa, 1872. 44 pp., 9 x 6, b. p.
- 155 **CANAL ROYAL DE LA PROVINCE DE LANGUEDOC.** Carte générale du Canal Royal de la Province de Languedoc. Nicolas Chalmandrier. no place, 1771-74. pl., 25 x 20, ¾ sh.
- 43 **CAPE COD SHIP CANAL.** An account of how it is proposed to build this canal, and arguments in favor of its early construction. Clemens Herschel. Bost., 1878. 40 pp., map, 9 x 6, pap.
- 23 **CASCO & KENNEBEC CANAL.** Survey and estimates of the C. & K. Canal. Joshua Barney. Portland, Me., 1835. 11 pp., 7 x 4, pap.
- CAUGHNAWAGA SHIP CANAL.** The Caughnawaga Canal and Mr. Young vs. the trade and commerce of the Dominion. J. M. Vernon. Montreal, 1874. newspaper slips, 9 x 6, b. p. no title-page. Ce-68, p. 183.
- Proceedings of the Convention held at Saratoga Springs, Aug. 21st, 1849, relative to the St. Lawrence & Champlain Ship Canal; with the separate reports of the Canadian and American Committees. Saratoga Springs, 1849. 21 pp., tab., 8 x 5, b. p. Yh-146, p. 583.
- 7 —Report relative to the survey of the proposed Caughnawaga Canal, and the amount of the cost of such surveys; copy transmitted to the Legislative Assembly of Quebec. J. B. Jarvis. Quebec, 1855. 76 pp., 9 x 6, b. p.
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- 58 **CHEMUNG CANAL.** Opinion upon the subject of connecting the Pennsylvania and New York canals. G. W. Hughes. (25th Cong., 2d Sess. House doc. No. 183.) no place, 1838. 4 pp., 9 x 6, pap.

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- Report relative to the extension of the Chemung Canal; made to the New York Canal Commissioners. J. D. Allen. 1839. (See Cfh-7, p. 167.)
- CHENANGO CANAL.** Report of the Committee on Canals and Internal Improvements on a petition for the extension of the Chenango Canal from Binghamton to the State Line near Tioga Point. 1840. (See Cfh-16, p. 725.)
- 10 **CHESAPEAKE & OHIO CANAL.** Account of surveys and examinations, with remarks and documents, relative to the projected C. & O. Canal, and Ohio and Lake Erie Canals. James Shriver. Balt., 1824. 116 pp., map, 9 x 6, b. p.
- Letter to the representatives of Maryland in the Congress of the United States on the subject of the C. & O. Canal. J. J. Speed. Balt., 1844. 18 pp., 7 x 4, b. p. Yh-146, p. 441.
- Proceedings of the C. & O. Canal Convention on the sixth day of Nov., 1823, and the sixth day of Dec., 1826. Wash., 1829. 112 pp., tab., 9 x 6, b. p. Cfi-1, p. 123.
- Report of the Board of Engineers concerning the proposed C. & O. Canal. U. S.-Board of Engineers for Internal Improvements. (19th Cong., 2d Sess. House ex. doc. No. 10.) Wash., 1826. 81 pp., tab., 9 x 6, b. p. Cfb-5, p. 1.
- Report on the C. & O. Canal, to Chief Engineer Alexander Macomb, Oct. 23d, 1826. U. S.-Board of Internal Improvements. 1873. (See Cfi-9.)
- Report on the condition of the C. & O. Canal. W. G. McNeil. (23d Cong., 1st Sess. House doc. No. 38.) no place, 1834. 24 pp., 9 x 6, b. p. Af-3, p. 89.
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- 24 —Reports and letters from the engineers employed in the revised location of the western section of the C. & O. Canal; with estimates of the cost of the same. Alfred Cruger and N. S. Roberts. no place, 1829. 102 pp., 10 x 6, pap.
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- CHICAGO MAIN DRAINAGE CANAL.** Lakes and Gulf waterway as related to the Chicago sanitary problem; the general project of a waterway from Lake Michigan to the Gulf of Mexico, in respect to the Chicago terminus, physical features of the route, character of the project, its utility and the methods of its accomplishment: A preliminary report. L. E. Cooley. 1890(?) (See Ca-52.)
- CONEWANGO CANAL.** Report relative to the survey of the Conewango Canal; made to the New York Canal Commissioners. Davis Hurd. 1840. (See Cfh-7, p. 393.)
- CROOKED LAKE CANAL.** Report on the resolution of the Assembly relative to the C. L. Canal. New York-Canal Commissioners. 1835. (See Cfh-10, p. 1005.)
- 29 **DARIEN CANAL.** Atrato Ship Canal; its importance to the commerce of the United States and other nations: Speech delivered in the House of Representatives, Feb. 15th, 1859. Elijah Ward. 16 pp., 10 x 6, pap. no title-page.
- Condensed account of Hellert's explorations on the Isthmus of Panama, including his special explorations on the Isthmus of Darien; with suggestions for conducting a future survey. George Davidson. 1869. (See Qe-80, Report for 1868, p. 260.)
- General remarks upon the project of an interoceanic canal through the Isthmus of Darien, and description of line as discovered and projected by Commander Selfridge. no place, 1870(?) 12 pp., 9 x 6, b. p. no title-page. Cfh-80, p. 557.
- 138 —General sketch of the survey for an interoceanic ship-canal near the Isthmus of Darien via the Rivers Atrato and Truando, made in accordance with the Act of Congress of Mar. 3d, 1857, under the direction of the Secretaries of War and of the Navy, by N. Michler. U. S.-Bureau of Topographical Engineers. (36th Cong., 2d Sess. Senate ex. doc. No. 9.) no place, 1858-59. map, 42 x 27, pap.
- 123 —Is a ship canal practicable? Notes, historical and statistical, upon the projected routes for an interoceanic ship canal between the Atlantic and Pacific Oceans; in which is included a short account of the character and influence of the Canal of Suez. S. T. Abert. Cin., 1872. 88 pp., maps, 9 x 6, pap.

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- 115 — On the junction of the Atlantic and Pacific Oceans, and the practicability of a ship canal, without locks, by the Valley of the Atrato. F. M. Kelley. Lond., 1856. 44 pp., map, 9 x 5, pap.
- 17 — Report of the survey for an interoceanic canal across the Isthmus of Darien. T. A. M. Craven. (46th Cong., 2d Sess. House ex. doc. No. 63.) Wash., 1880. 17 pp., 9 x 6, pap. no title-page.
- 14 — Report of a survey for an interoceanic ship canal near the Isthmus of Darien. N. Michler. (36th Cong., 2d Sess. Senate ex. doc. No. 9.) Wash., 1861. 2 v., 9 x 6, sh. no title-page.
- 151 — Report on an inspection of the terminal points of the proposed canals through Nicaragua and the Isthmus of Darien. H. Mitchell. no place, no date. 13 pp., 11 x 9, pap. no title-page.
- 98 — Reports of explorations and surveys to ascertain the practicability of a ship canal between the Atlantic and Pacific Oceans by way of the Isthmus of Darien. T. O. Selfridge. Wash., 1874. 268 pp., il., 17 pl., 12 x 10, cl.
- 84 — Rough notes of an exploration for an interoceanic canal route by way of the Rivers Atrato and San Juan, in New Granada, South America. J. C. Trautwine. Phil., 1854. 96 pp., pl., maps, 9 x 6, cl.
- 122 — Union of the oceans by ship-canal without locks *via* the Atrato Valley. F. M. Kelley. N. Y., 1859. 114 pp., map, 9 x 6, pap.
- DELAWARE & HUDSON CANAL.** Profiles of the canals and railroads for transporting anthracite coal from the several coal fields to the City of New York. J. D. Steele. 1857. (See Ab-345.)
- 39 — Review, by a Stockholder of the Morris Canal, of the "Views of a Stockholder in relation to the D. & H. Canal Co." Jersey City, 1831. 15 pp., 9 x 6, pap.
- ERIE CANAL.** Appeal, to the representatives of the people of the State of New York, in relation to the proposed enlargement of the Erie Canal. J. E. Bloomfield. no place, 1836. 16 pp., 8 x 5, b. p. Ab-2, p. 891.
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- 75 — Essay on the enlargement of the Erie Canal; with arguments in favor of retaining the present proposed size of 70 ft. by 7; and for its entire length from Albany to Buffalo, without any diminution. Jesse Hawley. Lockport, 1840. 16 pp., 8 x 5, pap.
- Report of the Committee remonstrating against the direct route for the eastern termination of the Erie Canal, and in answer to the report of Allan Campbell; made by the authority and under the direction of the Common Council of the City of Albany. Troy, 1836. 36 pp., 8 x 5, b. p. Ab-2, p. 567.
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- Report on the memorial of Hervey Ely and others in relation to the appraisal of property taken for the enlargement of the Erie Canal in the City of Rochester. New York-Committee on Canals and Internal Improvements. 1840. (See Cfh-16, p. 633.)
- Report on the mode of supplying the Erie Canal with water, from Lockport to the Cayuga Marshes. James Renwick. Rochester, N. Y., 1846. 24 pp., 9 x 6, b. p. Cfh-38, p. 1228.
- Reports on transportation routes to the Seaboard. U. S.-Corps of Engineers. 1875. (See Ch-161.)
- FORT ST. PHILIP SHIP CANAL.** Delta of the Mississippi, including the River to and above Forts Jackson and St. Philip and the contiguous Gulf waters and Fort St. Philip Ship Canal. U. S.-Coast and Geodetic Survey. 1874 (?) (See Qf-488.)
- Letter from the Chief of Engineers in answer to a Resolution of the House, in relation to a ship-canal to connect the Mississippi River with the Gulf of Mexico. U. S.-Corps of Engineers. (43d Cong., 1st Sess. House ex. doc. No. 113.) 1874. (See Cfi-2, p. 235.)
- 26 — Project of a ship canal between the Mississippi River and the Gulf of Mexico. R. Montaigu. New Orleans, 1861. 55 pp., 9 x 6, 1/2 skiv.
- Reports upon F. St. P. Canal, and construction of jetties for the improvement of the mouths of the Mississippi. U. S.-Engineer Department. 1874. (See Cfi-2, p. 327.)
- FORTH & CLYDE SHIP CANAL.** Notice regarding the proposed F. & C. Ship Canal. D. A. Stevenson. (International Cong. on Inland Navigation, 4th.) 1890. (See Ca-4.1, p. 371.)
- Paper on the proposed F. & C. Direct-route Ship Canal. J. L. Crawford. (International Cong. on Inland Navigation, 4th.) 1890. (See Ca-4.1, p. 389.)



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- GANGES CANAL (UPPER).** Report transmitting the report of Capt. Crofton on the remodeling of the Ganges Canal; and other documents. India-Public Works Department. 1865. (See De-86.)
- GENERAL.**
- MINARD, G. J.** Projet d'un point de partage et tracé des branches descendantes. 1841. (See Cb-244, v. 1, p. 388.)
- SIMMS, F. W.** On setting out the widths of ground required for the works of a railway or canal, etc. 1846. (See Ab-296, p. 23.)
- GENESEE VALLEY CANAL.** Report in relation to the G. V. Canal, transmitted to the New York Assembly by the Acting Canal Commissioner. F. C. Mills and W. H. Talcott. Albany, 1840. 59 pp., 9 x 6, b. p. no title-page. Cfh-7, p. 315.
- 87 **GREAT BRITAIN.** Inland navigation with special reference to the Birmingham District. L. F. Vernon-Harcourt. Lond., 1895. 15 pp., pl., 10 x 6, pap.  
—Reports made on various occasions in the course of his employment as a civil engineer. John Smeaton. 1812-14. (See Cb-423.)
- 89 **HARLEM RIVER SHIP CANAL.** Letter to the Commissioners of the Sinking Fund of the City of New York, Dec. 25th, 1891. Simon Stevens. N. Y., 1892. 28 pp., maps, 9 x 6, pap.
- HENNEPIN CANAL.** See Illinois & Mississippi Canal.
- 143 **ILLINOIS & MISSISSIPPI CANAL.** The Hennepin Canal: Some serious practical objections against the project. *Chicago Tribune*. Chic., 1886. newspaper slip.
- 55 — Speech in the House of Representatives, June 9th, 1884. J. H. Murphy. Note: Favors an appropriation for the construction of the Hennepin Canal. Wash., 1884. 15 pp., 9 x 6, pap.
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- INDIANA CANAL.** Charter and organization of the Company; also report of surveys and estimates for constructing a canal around the Falls of the Ohio River in the State of Indiana. William J. Ball. Cin., 1850. 46 pp., pl., map, 9 x 6, b. p. Fg-5, v. 2, p. 529.
- 44 **INLAND NAVIGATION CO.** Report of the Engineer of the I. N. Co.; adopted at the annual general meeting of the Company, Apr., 1855. C. W. Fairbanks. Halifax, 1855. 12 pp., 7 x 5, pap.
- 131 **ITALY.** Studio preliminare a programma di progetto di un canal intermarittimo Venezia-Spezia. G. A. Romano and G. V. Fiandra. Venezia, 1889. 2 v., 11 x 7, pap.
- 78 **JAMES RIVER & KANAWHA CO.,** comp. Central water-line from the Ohio River to the Virginia Capes, connecting the Kanawha and James Rivers; affording the shortest outlet of navigation from the Mississippi Basin to the Atlantic. Richmond, 1868. 95 pp., map, 9 x 6, pap.
- 2 — Defense of the Canal and of a continuous water line through Virginia. J. C. Cabell. no place, 1851. various pagings, 9 x 6, ¾ sh. no title-page.  
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—Report of the Chief Engineer, communicating the report of the surveys of the pass of the Allegheny Mountain. 1852. (See Cfh-26, p. 673.)  
—Report of the Chief Engineer, on the survey for the extension of the James River and Kanawha Improvement from Lynchburg to the Ohio River. Charles Ellet, Jr. 1838. (See Cfg-1, v. 1, p. 565.)  
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- 42 — Report on lockage and cost of construction, and the practicability of locks and dams on the New River. J. M. Harris. Richmond, 1874. 23 pp., 9 x 6, pap.  
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- 50 — Virginia central water-line: Speech upon the proposed completion of the water-line through that State by the National Government; delivered before the Committee on Commerce of the House of Representatives, Jan. 17th, 1873. R. W. Hughes. no place, 1873. 8 pp., 9 x 6, pap. no title-page.
- JUNCTION CANAL.** Report of the Committee on Canals and Internal Improvements, on the memorial of the J. C. Co. 1840. (See Cfh-16, p. 677.)
- 121 **LAKE ERIE & OHIO SHIP CANAL.** Organization, reports of committees, and other papers approved by the Provisional Committee. Pittsburg Chamber of Commerce. Pittsburg, 1894. 83 pp., map, 9 x 6, pap.

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- 13 **NIAGARA SHIP CANAL.** Patent for the single-lift lock, adapted to the ship canal at Niagara Falls. H. H. Day. N. Y., 1867. 8 pp., pl., 9 x 5, pap.
- 14 **NORTH SEA-BALTIC CANAL.** Der Nord-Ostsee-Kanal; die Ostsee-Schleusen zu Holtenau. Ber., 1893. 16 pp., 10 x 7, bds.
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- 18 —Canals. Marshall Stevens. Manchester, 1866. 14 + 1 p., map, 8 x 5, pap.
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- 52 —Essay on the laws of trade in reference to the works of internal improvement in the United States. Charles Ellett, Jr. Note: Relates especially to the future trade of the James River & Kanawha Co. Richmond, 1893. 284 pp., pl., 8 x 5, b. p.
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- 51 —Circular letter of May 1st, 1899, and answers thereto. Committee on Canals. Note: Contains opinions of engineers as to what should be done with the canals. N. Y., 1899. 200 pp., 9 x 6, pap.
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- Facts for canal contractors, and for the tax payers. no place, no date. 4 pp., 9 x 6, b. p. no title-page. Ad-251, p. 6015.
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- 32 —In regard to a ship canal to the sea. Horatio Seymour. no place, 1893. 11 pp., 9 x 6, pap. no title-page.
- 23 —Necessity to commerce of cheap water communication between the West and East; addressed to the farmers of Ohio, Indiana and Illinois. Carrington and Casey and others. Toledo, 1877. 12 pp., tab., 9 x 6, pap.
- 17 —New York State finances and canals: Speech in the Constitutional Convention on the 11th Sept., 1867. S. J. Tilden. 38 pp., 9 x 6, pap. no title-page.
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- 36 —Reports of the State Engineer and Surveyor of New York; and letters and reports to him upon the canals, railroads and rivers of the state; 1852-53. W. J. McAlpine. 3 v., 14 x 9, sh. no title-page. manuscript.
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- 7 **PANAMA CANAL CO.** Circular to the American Bankers who may take charge of issuing the shares of the Inter-oceanic Canal. Ferdinand de Lesseps. N. Y., 1880. unpagd., 11 x 8, pap.
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- SWEDEN**. Studie über die Wasserstrassen Schwedens, Ergebniss einer, im Auftrage des Herrn Ministers der öffentlichen Arbeiten. Freiherr von M. M. Weber. 1880. (See Cb 410.)
- 28 **UNION CANAL CO.** Public faith is the best treasury of a free people. Note: Relates to the lottery privileges of the U. C. Co. no place, 1821 (?) 15 pp., 8 x 5, b. p. no title-page.
- UNITED STATES**. Address before the Chamber of Commerce on . . . the channels of transport to market, their relative capacity and economy, what improvements or new routes may be made to increase and cheapen transport, and how these may be made conducive to the interests of New York City. W. J. McAlpine. N. Y., 1873. 38 pp., 9 x 6, b. p. Cfh-30, p. 319.
- 29 —The canal and the railway; with a note on the development of railway passenger traffic, by E. J. James. Canals and their economic relation to transportation, by Lewis M. Haupt. Balt., 1890. 85 pp., 9 x 6, pap.
- Les canaux des États-Unis. Émil Malézieux. 1873. (See Cc-169, p. 337.)
- 37 —Inland navigation in Europe and North America, with special reference to inland navigation in England. L. F. Vernon-Harcourt. Lond., 1899. pp. 153-172, 10 x 7, pap.
- Internal improvements; their value to the country, and to the individual farmer and laborer: Speech delivered in the Senate of the United States, 1886. Warner Miller. 1886. (See Cc-87.)
- 33 —National Convention, held at Lyceum Hall, Washington, Jan. 14th, 1874. American Cheap Transportation Association. Troy, N. Y., 1874. 99 pp., 9 x 6, pap.
- 40 —La navigation aux États-Unis par H. Vétillard: Rapport de mission, renseignements historiques, financiers, descriptifs et statistiques sur les ports et les voies navigables. France-Ministère des Travaux Publics. Paris, 1892. 3 + 544 pp., map, 12 x 9, pap
- Notes on some of the chief navigable rivers and canals in the United States and Canada; made for the Government of Madras during a tour in 1876. G. T. Walch. 1877. (See Cfb-4.)
- Notes on the relations between railroads and waterways in the United States: Report. E. P. North. (International Cong. on Inland Navigation, 5th.) Paris, 1892. 8 pp., pl., 11 x 7, pap. Ca-5.50.
- Proceedings of the Board and its Special Committee; together with the report of William J. McAlpine on the subject of transportation routes from the West to the Seaboard. Oswego Board of Trade. Oswego, 1873. 32 pp., map, 9 x 6, b. p. Cfh-30, p. 359.
- Report on the trade and commerce of the British North American Colonies and upon the trade of the Great Lakes and rivers; also notices of the internal improvements in each state, the Gulf of Mexico, and the Straits of Florida, and a paper on the cotton crop of the United States. I. D. Andrews. (32d Cong., 1st Sess. Senate ex. doc. No. 112.) 1853. (See Zd-83.)
- Respective uses of the waterways and railways in general transportation in the United States: Report. T. P. Roberts. (International Cong. on Inland Navigation, 5th.) Paris, 1892. 20 pp., pl., 11 x 7, pap. Ca-5.51.
- 38 —Ueber den Betrieb auf den Canälen in Nord-Amerika; Vortrag, gehalten am 16. Nov., 1885, im Architekten-Verein zu Berlin. Franz Lange. Ber., 1885. 18 pp., map, 10 x 7, pap.
- WASHINGTON CANAL**. Letter to the Committee of the District of Columbia relative to the Washington Canal. Benjamin Severson. Wash., 1868. 16 pp., 9 x 6, b. p. no title-page. Cfb-8, p. 113.
- WELLAND CANAL CO.** General statement showing the quantity of each article transported on the canal during the year 1852, and the amount of revenue collected thereon. no place, no date. 5 pp., 10 x 6, b. p. no title-page. Cfh-31, p. 1048.

## WATERWAYS—CANALS—LEGAL DOCUMENTS.

## Cff

- 39 **BELMONT & FROID CANAL & RESERVOIR CO.** Articles of incorporation, and by-laws. Denver, 1890. 15 pp., 6 x 4, pap.
- 25 **BIG BLACK CREEK IMPROVEMENT CO.** Charter, articles of association and by-laws of the B. B. C. I. Co.; together with the first and second annual reports of the Board of Directors. Phil., 1858. 23 pp., 9 x 6, pap.
- 40 **BLACK RIVER CANAL**. Before the Canal Appraisers, in the matter of the claims for damages suffered by the breaking of the North Lake Reservoir of the B. E. Canal. Griffith, Evans & Co. vs. The State of New York. no place, 1869. pp. 5-868, 10 x 6, bds.

## Cff—(Continued).

- 41 —Black River claims: Before the Canal Appraisers in the matter of the claims of William M. Coburn and others *vs.* State of New York: Points and briefs on behalf of the State. Levi H. Brown and others. Note: Claims for alleged damages resulting from the breach in the North Lake Reservoir of the canal. Oswego, N. Y., 1871. 313 + 78 + 1 pp., 9 x 6, pap.
- 42 —Testimony taken before the Canal Appraisers for damages done by the breaking away of North Lake Reservoir of the B. R. Canal. Griffith, Evans & Co. *vs.* The State of New York. Albany, 1869. 407 pp., 10 x 7, pap. no title-page.
- 13 **CAUGHNAWAGA SHIP CANAL.** Act to incorporate a company for the construction of a ship canal to connect the waters of Lake Champlain and the River St. Lawrence. Canada-Legislative Assembly. no place, 185- (?) 25 pp., 10 x 6, pap. no title-page.
- 12 **CHESAPEAKE & OHIO CANAL.** Act for the relief of the preferred Bondholders of the C. & O. Canal Co. Maryland-General Assembly. N. Y., 1867. 8 pp., 9 x 6, pap.
- 10 —Acts of the States of Virginia, Maryland and Pennsylvania, and of the Congress of the United States in relation to the C. & O. Canal Co.; with proceedings of the Company; also Acts and Resolutions of the States of Virginia and Maryland concerning the Potomac Co. Wash., 1828. 148 + 13 pp., 9 x 6, pap.
- 9 —Laws and resolutions relating to the C. & O. Canal Co. Virginia-General Assembly. Wash., 1855. 89 pp., 9 x 6, pap.
- Laws relating to the C. & O. Canal Co., 1850. Maryland-General Assembly. 1850. (See Af-4, p. 1.)
- 14 —Memorial of the Company. (22d Cong., 1st Sess. House doc. No. 18.) Note: Memorial states advisability of putting all available capital into the construction of the eastern section of the canal and asks to be released from the necessity of dividing equally between the two sections, the million dollars subscribed by the United States. no place, 1831. 223 pp., 10 x 6, pap.
- 11 —Opinion of the Court delivered by Associate Judge Miller, in the case of the Commonwealth of Virginia *vs.* the State of Maryland, the C. & O. Canal Co. and others. Maryland-Court of Appeals. Note: Case relates to the adjudication by the Court of the priorities of the several classes of creditors of the Company. Frederick, Md., 1871. 31 pp., 9 x 6, pap.
- Report from the Committee to whom were referred the memorial and report of the proceedings of the C. & O. Canal Convention, together with the report of the U. S. Board of Engineers, in relation to the route, plan and estimated cost of that canal. U. S.-Committee on Roads and Canals (House). (19th Cong., 2d Sess. House, No. 90.) Note: Contains charters of the company. 1827. (See Cff-8.)
- 45 —Resolution asking further aid from the General Government toward the completion of the C. & O. Canal, or a transfer of the interest of the United States in the stock of the same, Maryland-General Assembly. (25th Cong., 2d Sess. Senate, No. 360.) no place, 1838. 2 pp., 9 x 6, pap.
- 38 **DELAWARE & HUDSON CANAL CO. *vs.* PENNSYLVANIA COAL CO.** Decisions in litigations between the Companies. N. Y., 1872. 52 pp., 10 x 7, pap.
- 5 —Supreme Court, Ulster County: Pleadings and testimony taken before J. H. Dubois, Referee. Note: Relates to the contract between the Companies, fixing the rate of tolls for transportation of coal on the D. & H. Canal. N. Y., 1858. 6 v., 3964 pp., maps, 19 x 7, ¼ cf.
- 23 **DELAWARE & RARITAN CANAL.** Acts relative to the D. & R. Canal Co. and Camden & Amboy R. R. & Transportation Co. New Jersey-Legislature. no place, 1832. 30 pp., 9 x 5, pap.
- 22 —Acts relative to the D. & R. Canal Co., and Camden & Amboy R. R. & Transportation Co. New Jersey-Legislature. Princeton, 1840. 44 pp., 9 x 6, pap.
- 34 **DISMAL SWAMP CANAL.** Memorial and other papers; to the Senate and House of Representatives of the United States of America, Dec., 1877. no place, 1877. 13 + 12 pp., 8 x 5, pap.
- 30 **ECKERT, T. F., and others.** Memorial of a number of captains of western steamboats praying the construction of a canal around the Falls of the Ohio, on the Indiana side. (28th Cong., 1st Sess. Senate, No. 16.) no place, 1844. 3 pp., 9 x 6, pap.
- 28 **ERIE & MICHIGAN CANAL.** Resolutions to obtain a donation of land to aid in the construction of the E. & M. Canal. Indiana-General Assembly. (25th Cong., 2d Sess. Senate, No. 372.) no place, 1838. 1 p., 9 x 6, pap.
- 3 **ERIE CANAL.** Laws in relation to the Erie and Champlain Canals; together with the annual reports of the Canal Commissioners, and other documents requisite for a complete official history of those works. New York-Legislature. Albany, 1825. 2 v., pl., maps, 10 x 6, b. p.
- 1 —Memorial of a Committee appointed at a canal convention, composed of delegates from Oneida, Lewis, Jefferson, and St. Lawrence, on the subject of a canal to connect the navigable waters of the Black River with the Erie Canal. no place, 1836. 16 pp., 9 x 6, b. p. no title-page.

## Cff—(Continued).

- Memorial of sundry inhabitants of Oneida County against the enlargement of the Erie Canal and for the construction of a ship canal from Oswego to Utica; to the Legislature of the State of New York. John Butterfield and others. Albany, 1837. 9 pp., 10 x 6, b. p. Cfh-14, p. 103.
- 26 **INLAND NAVIGATION CO.** Act of incorporation and bye-laws of the I. N. Co. Nova Scotia-Legislative Assembly. Halifax, 1854. 10 pp., 10 x 6, pap.
- JAMES RIVER & KANAWHA CO.** Collection of all acts and parts of acts, from Oct., 1874, down to the Session of 1829-30, inclusive, relating to the James River Co.; together with an appendix containing the regulations of the President and Directors of the Company. Richmond, Va., 1830. 104 + 14 + 27 pp., 9 x 6, b. p. Cfg-1, v. 1, p. 1.
- 36 —Memorial to the Congress of the United States relative to water communication between the Atlantic and Mississippi. Virginia-General Assembly. Richmond, 1870. 7 + 1 pp., 9 x 6, pap.
- 4 **LEHIGH COAL & NAVIGATION CO.** Acts concerning the L. C. & N. Co.; together with by-laws, etc. Pennsylvania-General Assembly. Phil., 1837. 79 + 1 pp., 9 x 6, b. p.
- 32 **LOUISVILLE & PORTLAND CANAL.** Memorial praying the purchase by the United States, of the individual stock in the L. & P. Canal Co. Louisville Chamber of Commerce. (26th Cong., 1st Sess. Senate, No. 143.) no place, 1840. 4 pp., 9 x 6, pap.
- MANCHESTER SHIP CANAL.** Some legal considerations in relation to the proposed M. S. Canal; and the duty of municipal corporations to support the undertaking. "A Manchester Barrister," pseud. 1882. (See Cfb-66.)
- 33 **MILWAUKEE & ROCK RIVER CANAL.** Memorial of the President and Directors of the Company, praying a grant of land in aid of that work. (25th Cong., 2d Sess. Senate, No. 271.) no place, 1838. 13 pp., map, 9 x 6, pap.
- Statement of the claim of the Company on the Canal Fund. Madison, Wis., 1853. 12 pp., 8 x 6, b. p. Cfh-32, p. 903.
- MORRIS CANAL & BANKING CO.** Charter of the M. C. & B. Co., and the several acts of the Legislature in relation thereto. New Jersey-Legislature. Jersey City, 1832. 31 pp., 9 x 5, b. p. Cfh-67, p. 153.
- 17 —Same. N. Y., 1860. 72 pp., 9 x 6, pap.
- 24 —Court of Appeals of State of New York; in the matter of the appraisal of the damages of Peter Townsend and William H. Townsend, the owners of lands required by the M. C. & B. Co. for the purpose of a reservoir for their canal: Respondents' points. J. M. Van Cott and D. F. Gedney. 9 pp., 10 x 8, pap. no title-page.
- 16 —In Chancery of New Jersey: Answer of the Central R. R. Co. of New Jersey, and of John Taylor Johnson. Note: Suit relates to the objections of the M. C. & B. Co. to the right of the C. R. R. Co. of N. J. to construct the proposed pier where Mill Creek flows into New York Bay. Jersey City, 1863. 40 pp., 10 x 7, pap.
- 20 —vs. Central R. R. Co. of New Jersey. In Chancery of New Jersey: The M. C. & B. Co. against the Central R. R. Co. of N. J. and others: Opinion, 1863. W. C. Noyes. Jersey City, 1867. 18 pp., 10 x 7, pap.
- 21 —vs. F. O. Matthiessen and others. In Chancery of New Jersey: Bill for injunction, and testimony relating to the suit. Note: Relates to the suit over the construction of the Morris Canal Basin at Jersey City. Jersey City, 1863. 100 pp., 10 x 8, pap. no title-page.
- 19 —Memorial to the New Jersey Assembly. Note: Relates to the riparian rights of the Morris Canal Co. Jersey City, 1866. 8 pp., 9 x 6, pap.
- 18 —Statement of the rights of the M. C. & B. Co. to lands under water in Communi-paw Bay, and how they were acquired. Jersey City, 1864. 18 pp., map, 10 x 7, pap.
- 1 **NEW YORK STATE.** Circular to the Superintendent of Canal Repairs relative to the duties of the office as defined by the Canal Board. New York (State)-Comptroller. Albany, 1835. 19 pp., 9 x 6, b. p. no title-page.
- 7 —Corrected copy of "An act to provide for the introduction of an improved system of steam towage upon the canals of the state." 2 pp., 13 x 8, pap. no title-page.
- 43 —Forms and instructions, etc., in relation to the accounts of collectors of tolls of the New York State Canals, who receive toll on one canal only. Albany, 1837. 4 pts. in 1, 13 x 8, pap.
- 35 —Laws and regulations of the Engineer Department of the State of New York, 1868. Albany, 1868. 29 pp., 7 x 5, pap.
- Laws, regulations, rates of toll, and names of the principal places with their distances from each other, of the New York State Canals. New York-Canal Board. Albany, 1850. 157 pp., 9 x 6, b. p. Cfh-39, p. 1005.
- Official report, and the Acts of the Legislature respecting navigable communications between the Great Western and Northern Lakes and the Atlantic Ocean. New York-Canal Commissioners. 1817. (See Cfh-40.)



**Cff—**(*Continued*).

- Report of the Attorney-General to the Canal Board, on the reference to him by the said Board, of the application of John Legg, to be released from the payment of rent for the use of surplus waters of the Skaneateles Lake, Mar. 3d, 1852. Albany, 1852. 6 pp., 9 x 6, b. p. Ah-24, p. 421.
- 1 —Revised statute, together with sundry additional acts passed since the revision, relating to the New York State Canals. Albany, 1834. 41 pp., 9 x 6, b. p.
- NIAGARA SHIP CANAL.** Memorial against ceding to the United States the right to construct the N. S. Canal, and in favor of retaining it as the property of the State. Jesse Hawley (New York Assembly, No. 108.) no place, 1840. 18 pp., 9 x 6, b. p. no title-page. Cfh-16, p. 789.
- 2 **OHIO.** Public documents concerning the Ohio canals which are to connect Lake Erie with the Ohio River; comprising a complete official history of these great works of internal improvement. John Kilbourn, comp. Columbus, 1828. 403 + 1 pp., 10 x 6, ¾ sh.
- 44 **PANAMA CANAL.** Memoir relative to an interoceanic canal for connecting the waters of the Atlantic and Pacific Oceans. Alfred Duvall. Balt., 1860. 7 + 1 pp., 9 x 6, pap.
- 27 **ST. MARY'S FALLS CANAL.** Improvement of the St. Mary's River and Canal: Memorial to Congress; official history of the improvement; commercial statistics for 1878. Marquette Iron Ore Association. Marquette, Mich., 1879. 96 pp., tab., 9 x 6, pap.
- Memorial to the Senate and House of Representatives of the United States. Michigan-Legislature. Note: Relative to the St. Mary's Falls Canal. (New York Assembly, No. 15.) Albany, 1841. 8 pp., 10 x 6, b. p. Cfh-15, p. 309.
- 31 —Resolution relative to the construction of a ship canal around the Falls of Niagara and the Sault Ste. Marie. Michigan-Legislature. (31st Cong., 1st Sess. Senate misc., No. 5.) no place, 1849. 2 pp., 9 x 6, pap.
- 29 **WABASH & ERIE CANAL.** Memorial of a number of citizens of Indiana and others, praying a grant of land for the completion of the W. & E. Canal. John Caldwell and others. (25th Cong., 1st Sess. Senate, No. 78.) no place, 1844. 6 pp., 9 x 6, pap.

**WATERWAYS—CANALS—REPORTS, COMPANY.**

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- 30 **ALBEMARLE & CHESAPEAKE CANAL.** Annual report of the President and Directors; 25th; 1889. Norfolk, Va., 1880. 1 v., 9 x 6, pap.
- 5 **AUGUSTA CANAL.** Enlarged Augusta Canal, Augusta, Ga., its capacity and advantages for the manufacture of cotton goods; with map of location . . . by Byron Holly. N. Y., 1875. 10 pp., map, 9 x 6, pap.
- BIG BLACK CREEK IMPROVEMENT CO.** Annual report; 1st, 2d; 1856-57. (See Cff-25, p. 16.)
- CHESAPEAKE & OHIO CANAL.** Annual report of the President and Directors to the Stockholders; 3d; 1831. (See Cff-14, p. 19.)
- 13 —Same; 5th-7th, 9th-28th, 30th-46th; 1833-35, '37-56, '58-74. Wash., 1833-74. 40 v., 9 x 6, pap.
- 11 —Communication from the President and Directors to the Governor of Maryland. Note: Report of the proceedings of the Company from the publication of the 17th annual report, June, 1845, to Dec., 1845. no place, 1845. 55 pp., 9 x 6, pap.
- 10 —Proceedings of the Stockholders at their adjourned general meetings holden on the 6th July and the 16th and 17th Aug., 1843; including the report of the Directors of the 16th of Aug., 1843. Wash., 1843. 41 pp., 9 x 6, pap.
- 12 —Report of the General Committee of the Stockholders; 1836, '38, '45, '48, '50. Wash., 1836-50. 6 v., 9 x 6, pap.
- 7 —Report of the President and Directors to the Stockholders for the quarter ending Nov. 30th, 1872; Feb. 28th, 1873. Annapolis, 1872-73. 2 v., 9 x 6, pap.
- 8 —Report of the President to the Stockholders and Board of Directors, Dec. 13th, 1871. Note: Report relates to the working of the canal from June, 1870, to Dec., 1871, and also for the three preceding years. Balt., 1871. 29 pp., 9 x 6, pap.
- 9 —Report to the Board of Directors for the year ending Dec. 31st, 1870. Balt., 1871. 1 v., 9 x 6, pap.
- 6 —Report to the Stockholders on the completion of the C. & O. Canal to Cumberland, with a sketch of the Potomac Company, and general outline of the history of the C. & O. Canal Co., from its origin to Feb., 1851. Frederick, Md., 1851. 157 pp., 9 x 6, pap.
- 32 **DELAWARE & HUDSON CANAL.** Annual report of the Board of Managers to the Stockholders; 1850-61, '63-64, '70. N. Y., 1850-71. 15 v., 9 x 6, pap.
- Same; 1840. 1 v., 9 x 5, b. p. Cfh-29, p. 341.
- Same; 1849. 1 v., 9 x 6, b. p. Cfh-31, p. 269.

Cf—(*Continued*).

- 35 **DELAWARE & RARITAN CANAL CO.**, Camden & Amboy R. R. Co. and New Jersey R. R. & Transportation Co. Joint report to the Stockholders; 1st; 1867. Phil., 1867. 1 v., 9 x 6, pap.
- 27 —and Camden & Amboy R. R. Co. Memoir, Feb. 3d, 1884. Note: Report of the present state and future prospects of the Companies, no place, 1884. 8 pp., 8 x 5, pap. no title-page.
- 23 **DELAWARE DIVISION CANAL.** Annual report of the Board of Managers to the Stockholders; 1st-6th, 8th; 1859-64, '66. Phil., 1859-66. 7 v., 9 x 6, 8 x 5, pap.
- 31 **DISMAL SWAMP CANAL.** Annual report of the President and Directors to the Stockholders for the fiscal year ending Sept. 30th, 1868. Norfolk, Va., 1868. 1 v., 9 x 6, pap.
- FRANKLIN CANAL.** Report of the Directors; 1852. 1 v., 9 x 6, b. p. no title-page. Cfh-31, p. 839.
- 24 **ILLINOIS & MICHIGAN CANAL.** Circular; 1-7; 1848-54. Bost., 1849-55. 7 v., 9 x 6, pap.
- 3 —Report of the Board of Trustees; 1846-48. Springfield, Ill., 1847-49. 3 v., 9 x 6, b. p.
- 1 **JAMES RIVER & KANAWHA CO.** Annual report of the President to the Stockholders; together with the proceedings of the Stockholders; 1st-15th, 21st; 1835-49, '55. Richmond, Va., 1836-49. 16 v. in 4, 9 x 6,  $\frac{3}{4}$  sh., pap.
- Same; 15th-17th; 1849-52. Richmond, Va., 1849-52. 3 v., 9 x 6, b. p. Cfh-26, p. 219.
- 36 **LEHIGH COAL & NAVIGATION CO.** Report of the Board of Managers to the Stockholders; 1838, '46, '54, '59-60, '62, '64-66, '68-70. Phil., 1839-71. 11 v., 9 x 6, pap.
- Same; 1833-39. Phil., 1834-40. 7 v., 9 x 6, b. p. Cfh-29, p. 429.
- Same; 1840-59. Phil., 1841-60. 20 v., 9 x 6, b. p. Cfh-4, p. 149.
- 28 **MANCHESTER SHIP CANAL.** Reports of Sub-Committee appointed 9th Oct., 1891, to consider and examine the reports and estimates submitted to the Board of Directors by the Company's Engineer and the Corporation Engineer. Manchester, 1891. 11 pp., 8 x 6, pap. no title-page.
- 29 —Statement of the Directors for the information of the Shareholders, and the owners and rate-payers of the City of Manchester. no place, 1891. 7 pp., 10 x 6, pap. no title-page.
- 21 **MONONGAHELA NAVIGATION CO.** Annual report; 14th, 21st-22d, 39th, 42d-44th; 1853, '60-61, '78, '81-83. Pittsburg, 1854-84. 7 v., 9 x 6, pap.
- 15 **MORRIS CANAL & BANKING CO.** Annual report upon the Morris Canal for the year ending July 1st, 1826. Morristown, N. J., 1826. 1 v., 9 x 6, pap.
- 18 —Report of the President and Directors to the Stockholders; 1836-37, '48, '50, '53-55, '61-69. Jersey City, 1836-69. 16 v., 9 x 6, pap.
- 16 —Report of the President to the Board of Directors, Aug. 12th, 1845. Note: Relates to the trouble between the Company and R. L. Colt over the use of water from the Passaic River by the Canal Co. no place, 1845. 12 pp., 9 x 6, pap.
- 17 —Report of the President to the Directors, of the affairs of the Company from Jan. 1845, to Feb., 1846. Jersey City, 1846. 8 pp., 9 x 6, pap. no title-page.
- 26 —Statement and map showing the unimproved property of the Company, at Jersey City. no place, 1845 (?) 11 pp., map, 9 x 6, pap.
- 33 **NICARAGUA CANAL.** Annual report; 1898. Maritime Canal Co. of Nicaragua. (55th Cong., 3d Sess. Senate doc. No. 13.) no place, 1898. 1 v., 9 x 6, pap.
- 19 **PENNSYLVANIA CANAL.** Annual report; 1st; 1867. Phil., 1868. 1 v., 9 x 6, pap.
- 22 **PENNSYLVANIA R. R.** Report of the Engineer and Superintendent of the Canal Department; 1860-61, '65. Harrisburg, 1861-66. 3 v., 9 x 6, pap.
- 4 **SCHUYLKILL NAVIGATION CO.** Report of the President and Managers to the Stockholders; 1844-62. Phil., 1845-63. 18 v. in 1, 9 x 6,  $\frac{3}{4}$  mor.
- 25 —Same; 1862-63, '65-67. Phil., 1863-68. 5 v., 9 x 6, pap.
- UNION CANAL.** Annual report of the Managers to the Stockholders; 1853. Phil., 1853. 1 v., 9 x 6, b. p. Cfh-32, p. 83.
- Same; 1839. Phil., 1839. 1 v., 8 x 5, b. p. Yh-146, p. 657.
- WABASH & ERIE CANAL.** Annual report of the Trustees to the General Assembly of the State of Indiana; 1851. Indianapolis, 1851. 1 v., 9 x 6, b. p. Cfh-26, p. 171.
- 2 **WELLAND CANAL.** Annual report of the Board of Directors; 1832. St. Catharines, Ont., 1833. 1 v., 8 x 5, b. p.
- 20 **WEST BRANCH & SUSQUEHANNA CANAL.** Annual report; 1st; 1867. Phil., 1868. 1 v., 9 x 6, pap.

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- CALIFORNIA—COMMISSIONERS OF THE SACRAMENTO RIVER DRAINAGE DISTRICT.** Reports of the Chief and Assistant Engineers on the Drainage Canal of the Sacramento Drainage District. 1879. (See De-49.)
- 53 **ILLINOIS—CANAL COMMISSIONERS.** Report to the Governor; Dec. 1st, 1872. Note: Relates to the transfer of the Illinois and Michigan Canal from the Board of Trustees to the State; and also to the condition of the canal, lock and dam at Henry, and the improvement of the Little Wabash River. Springfield, 1872. 71 pp., 9 x 6, pap.
- 54 **ILLINOIS—COMMISSIONERS OF THE ILLINOIS & MICHIGAN CANAL.** Annual report of the Acting Commissioner to the General Assembly; 8th; 1844. Springfield, 1844. 1 v., 10 x 7, pap.
- 14 — Same; 1836. Vandalia, 1837. 1 v., 10 x 6, b. p.
- INDIANA—COMMISSIONERS OF THE WABASH & ERIE CANAL.** Report; Dec. 19th, 1835. no place, no date. 87 pp., 9 x 5, b. p. Ac-139, p. 209.
- LOUISIANA—STATE ENGINEER.** Report; 1852. no place, 1853. 1 v., 9 x 6, b. p. Ab-3, p. 495.
- 45 **MARYLAND—COMMITTEE OF INTERNAL IMPROVEMENT.** Report on the condition of the Chesapeake & Ohio Canal. no place, 1841. 27 pp., 9 x 6, pap.
- MARYLAND—COMMITTEE OF WAYS AND MEANS.** Report in compliance with the orders of the House of Delegates in relation to the subscription of the State to certain internal improvement companies. no place, 1836. 96 pp., 9 x 6, b. p. Cfb-5, p. 217.
- 44 **MARYLAND—GOVERNOR.** Message upon the subject of the Chesapeake & Ohio Canal Co., to the General Assembly. Annapolis, 1870. 17 pp., 9 x 6, pap.
- 48 **MASSACHUSETTS—COMMITTEE FOR WORCESTER COUNTY.** Account of a proposed canal from Worcester to Providence, containing the report of the Engineer; together with some remarks upon inland navigation. Providence, 1825. 16 pp., 9 x 6, pap.
- 59 **MINNESOTA—CANAL COMMISSIONERS.** Report; 1875. St. Paul, 1876. 1 v., 9 x 6, pap.
- 49 **NEW JERSEY—CANAL COMMISSIONERS.** Report upon the subject of a canal from the Delaware to the Raritan, made Nov., 1824. Trenton, 1825. 26 pp., 9 x 6, pap.
- 50 **NEW JERSEY—LEGISLATURE.** Report of Commissioners appointed to investigate charges made against the Directors of the Delaware & Raritan Canal and Camden & Amboy R. R. & Transportation Cos. Trenton, 1850. 187 pp., 9 x 6, pap.
- 67 — Report of the Commissioners appointed for the purpose of exploring the route of a canal to unite the River Delaware, near Easton, with the Passaic, near Newark; with accompanying documents. Morristown, 1823. various pagings, pl., 9 x 5, b. p.
- NEW JERSEY—SECRETARY OF STATE.** Annual reports of the railroad and canal companies of the State; 1854, '59, '64, '67. 1854-68. (See Ah-32.)
- 73 **NEW JERSEY—STATE DIRECTORS OF THE DELAWARE & RARITAN CANAL AND CAMDEN & AMBOY R. R.** Report; 1847-48, '55, '57, '59-61, '64. Trenton, 1848-65. 8 v., 9 x 5, pap.
- 34 **NEW YORK—ASSEMBLY.** Report of the Select Committee on petitions for substituting a railroad for a portion of the Genesee Valley Canal. Albany, 1841. 9 pp., 9 x 6, b. p.
- NEW YORK—(ASSEMBLY) COMMITTEE ON CANAL DEPARTMENT.** Report of the Minority of the Committee on the Bill to provide for the election of Auditor of the Canal Department. no place, 1855. 7 pp., 9 x 6, b. p. no title-page. Ad-251, p. 5091.
- 37 **NEW YORK—(ASSEMBLY) COMMITTEE ON CANALS.** Report in relation to the completion of a portion of the enlargement of the Erie Canal. Albany, 1843. 9 pp., 9 x 6, b. p.
- 16 — Report in relation to the improvement of the Chemung Canal. no place, 1840. 5 pp., 9 x 6, b. p. no title-page.
- 37 — Report of the Minority of the Committee on so much of the Governor's Message as relates to the canals. Albany, 1843. 11 pp., 9 x 6, b. p.
- 37 — Report of the Minority of the Committee on that portion of the Governor's Message relating to the canals. Note: Relates to the necessity of completing the unfinished canals of the state. Albany, 1843. 28 pp., 9 x 6, b. p.
- 15 — Report on petitions for the extension of the Black River Canal. Albany, 1841. 10 + 1 pp., 9 x 6, b. p.
- 42 — Report on so much of the Governor's Message as relates to canals. no place, 1844. 71 pp., 10 x 6, b. p.
- 55 — Report on so much of the Governor's Message as relates to the completion of the state canals. Albany, 1851. 63 pp., 9 x 6, pap.



## Cfh—(Continued).

- 4 —Report on so much of the petition of Hiram Wright and others, complaining of the official conduct of Canal Commissioners Bouck and Baker, and Engineers Hutchinson and Mills, as relates to the conduct of Commissioner Bouck relative to the neglect and unnecessary delay in opening the Erie Canal. no place, 1840. 15 pp., 9 x 6, b. p. no title-page.
- 37 —Report on the petition of Asa T. Smith, relative to a rehearing on his claims for work done on Section 24 of the Erie Canal Enlargement and for a correction of errors in the estimates for bridges constructed and materials furnished on the Black River Canal. Albany, 1843. 23 pp., 9 x 6, b. p.
- 37 —Report on the petition of Sage, Casler & Co., for a law authorizing and requiring the Canal Board to hear and adjust their claims for further compensation for constructing the Lower Erie Canal Aqueduct across the Mohawk River. Albany, 1843. 2 pp., 9 x 6, b. p.
- 41 —Report on the petitions relative to the new line of the Erie Canal at Rome. (Assembly, No. 125.) no place, 1844. 3 pp., 10 x 6, b. p. no title-page.
- 3 —Report on the proposition to enlarge the Champlain Canal. no place, 1850. 3 pp., map, 9 x 6, b. p. no title-page.
- 41 —Report respecting the application of Frederick House and others, to connect a slip and basin with the Branch of the Genesee Valley Canal at Dansville. (Assembly, No. 164.) no place, 1844. 6 pp., 10 x 6, b. p.
- 16 **NEW YORK—(ASSEMBLY) COMMITTEE ON CANALS AND INTERNAL IMPROVEMENTS.** Report on so much of the Governor's Message as relates to internal improvements. no place, 1840. 28 pp., 9 x 6, b. p.
- 16 —Report on the memorial of Hervey Ely and others in relation to the appraisal of property taken for the enlargement of the Erie Canal in the City of Rochester. no place, 1840. 22 pp., 9 x 6, b. p. no title-page.
- Report on the memorial of the Junction Canal Co. no place, 1840. 9 pp., 9 x 6, b. p. no title-page. Ab-5, p. 241.
- 14 —Report on the petition of Peter Bargy, Jr. Albany, 1837. 27 pp., map, tab., 10 x 6, b. p.
- Report on the petition of the inhabitants of the Counties of Saratoga, Fulton, Hamilton and Warren, for the construction of the Sacandaga Canal. no place, 1840. 5 pp., 9 x 6, b. p. Ab-5, p. 325.
- 16 —Report on the petition of the proprietors of the canal basin at Rochester, known as "Childs' Slip." no place, 1839. 10 pp., 9 x 6, b. p. no title-page.
- 16 —Report on the petition requesting the State to purchase the Oneida Lake Canal and Feeder. no place, 1840. 10 pp., 9 x 6, b. p. no title-page.
- 16 —Report relative to the enlargement of the Erie Canal. no place, 1838. 8 pp., 9 x 6, b. p. no title-page.
- 10 —Report relative to the improvement of the Erie Canal. no place, 1825. 23 pp., 9 x 6, b. p. no title-page.
- 38 **NEW YORK—(ASSEMBLY) COMMITTEE ON CLAIMS.** Report on the memorial of the Mayor, Aldermen and Commonalty, and the petition of about 6,000 citizens of the City of Albany, asking relief from the expenses incurred in excavating the canal basin in said city. Albany, 1848. 15 pp., 9 x 6, b. p.
- 41 —Report on the petition of Brayton & Chesebrough for additional compensation for work done on the state canals. no place, 1844. 3 pp., 10 x 6, b. p. no title-page.
- 41 —Report on the petition of Charles Stroud and others for relief, asking for additional compensation for work done on the state canals. no place, 1844. 2 pp., 10 x 6, b. p. no title-page.
- 41 —Report on the petition of Geer & Weaver asking for additional compensation for work done on the state canals. no place, 1844. 1 p., 10 x 6, b. p. no title-page.
- 41 —Report on the petition of Geer, Kasson & Breed for additional compensation for work done on the state canals. no place, 1844. 3 pp., 10 x 6, b. p. no title-page.
- 41 —Report on the petition of John Bt. Clute for compensation for work done on the state canals. no place, 1844. 2 pp., 10 x 6, b. p. no title-page.
- 41 —Report on the petition of Marlett & Dunham, asking for additional compensation for work done on the state canals. no place, 1844. 2 pp., 10 x 6, b. p. no title-page.
- 41 —Report on the petition of Merrit Clark for additional compensation for work done on the state canals. no place, 1844. 2 pp., 10 x 6, b. p. no title-page.
- 37 —Report on the petition of Otis Eddy for an allowance of interest on estimates of work and material on the aqueduct over the Schoharie Creek; and also for damages for extending the time for completing the same. Albany, 1843. 5 pp., 9 x 6, b. p.
- 37 —Report on the petition of Solomon Brown, for the passage of a law authorizing the Canal Commissioners to investigate his claim for work done on Section 31 of the Erie Canal Enlargement. Albany, 1843. 4 pp., 9 x 6, b. p.

**Cfh—(Continued).**

- 37 —Report on the petition of Solomon Brown, for the passage of a law authorizing the Canal Commissioners to investigate his claim for work done on Section 36 of the Erie Canal Enlargement. Albany, 1843. 3 pp., 9 x 6, b. p.
- 36 —Report on the petition of William Newton. Note: Prays for additional compensation for work done on the Chenango Canal. no place, 1841. 2 pp., 9 x 6, b. p.
- 36 —Report on the petitions of Beach, Chapman & McOmber, and of James H. Mallory and others. Note: Pray for compensation beyond contract price in their contracts for bridges on the enlargement of the Erie Canal. no place, 1840. 2 pp., 9 x 6, b. p.
- 36 **NEW YORK—(ASSEMBLY) COMMITTEE ON GRIEVANCES.** Report on the petition of Jacob Vanderheyden. Note: Petition for compensation for injury sustained by reason of blasting, in the enlargement of the Erie Canal. no place, 1841. 3 pp., 9 x 6, b. p.
- 5 **NEW YORK—(ASSEMBLY) COMMITTEE ON WAYS AND MEANS.** Report on the United States Deposit Fund, and on the recommendation of the Comptroller to levy a direct tax. Note: A discussion of the State's relation to the canals. no place, 1838. 37 pp., 9 x 6, b. p. no title-page.
- 43 **NEW YORK—CANAL APPRAISERS.** Annual report; 1869. Albany, 1870. 1 v., 9 x 6, pap.
- 41 —Report on the memorial of landowners in Frankfort and German Flats, Herkimer, on the subject of canal damages. (Assembly, No. 101.) no place, 1844. 2 pp., 10 x 6, b. p.
- 16 —Report on the petition and Bill for the relief of Nathaniel S. Howard for damages caused by the appropriation of his property, and for injury to his mills and mill privileges by the construction of the Chenango Canal. no place, 1840. 4 pp., 9 x 6, b. p. no title-page.
- 3 **NEW YORK—CANAL BOARD.** Communication transmitting the report of D. C. Jenne, Resident Engineer, in relation to the supply of water for the Black River Canal and Black River. no place, 1850. 6 pp., 9 x 6, b. p. no title-page.
- 35 —Documents accompanying the report on the enlargement of the Erie Canal. Contents: Reports by John B. Jervis, Nathan S. Roberts, Frederick C. Mills and Holmes Hutchinson. no place, 1836. 291 pp., tab., 9 x 6, b. p. no title-page.
- 26 —Minutes of the meeting of Aug. 25th, 1852. Albany, 1852. 7 pp., 9 x 6, b. p.
- 62 —Report giving the names and compensation of officers appointed by the Canal Board and Canal Commissioners. no place, 1840. 19 pp., 10 x 6, pap.
- 41 —Report in answer to a resolution of the Assembly, of January 31st, 1844, asking for additional information about the decision of the Canal Board in the matter of the petition of William J. Nelson and Ira E. Phillips. (Assembly, No. 70.) Albany, 1844. 3 pp., 10 x 6, b. p. no title-page.
- 3 —Report in answer to resolution relative to the improvement of Seneca River at Baldwinsville. no place, 1850. 15 pp., 9 x 6, b. p. no title-page.
- 35 —Report in answer to resolutions of the Assembly respecting the canal debts and revenues, and the enlargement of the Erie Canal, etc. no place, 1840. 51 pp., 9 x 6, b. p.
- 47 —Report in relation to Honeoye, Conesus and other lakes. (Senate, No. 40.) Note: Report on the question of the expediency of using the lakes as supply reservoirs for the Erie and Genesee Valley Canals. Albany, 1850. 40 pp., maps, 9 x 6, pap.
- 37 —Report in relation to property shipped and left at Buffalo, Black Rock, Oswego, etc., from 1830 to the present time. Albany, 1843. 19 pp., 9 x 6, b. p.
- Report in relation to the estimated and actual cost of canals that are finished, and the estimated cost of those unfinished, etc. no place, 1837. 11 pp., 9 x 6, b. p. Cfh-1, p. 471.
- 61 —Report in relation to the Genesee Valley Canal. no place, 1839. 12 pp., 10 x 7, pap.
- 16 —Report in relation to the surplus waters at the dams and short levels on the Oswego Canal. no place, 1839. 3 + 1 pp., 9 x 6, b. p. no title-page.
- 42 —Report of damages awarded to canal contractors for breaches of contracts on the part of the State, in consequence of the suspension of the public works by the Act of 1842. Albany, 1844. 2 pp., tab., 10 x 6, b. p.
- 3 —Report of the Committee on Claims on the petition of Sage, Walrath & Dunham, relative to the payment of extra compensation for the construction of the combined locks Nos. 18, 19 and 20, on the Northern Division of the Chenango Canal. no place, 1850. 7 pp., 9 x 6, b. p. no title-page.
- 3 —Report on the bill to supply the Black River Canal and Black River with water. no place, 1850. 3 pp., 9 x 6, b. p. no title-page.
- 41 —Report on the claim of Robert Fero under his contract for the construction of Becker's Lock on the Champlain Canal. Albany, 1844. 13 pp., 10 x 6, b. p. no title-page.
- Report on the enlargement of the Erie Canal, made to the Senate. no place, 1837. 6 pp., 9 x 6, b. p. Cfh-1, p. 465.

## Cfh—(Continued).

- 16 —Report on the petition from certain inhabitants of the Village of Seneca Falls, praying for the enlargement of the Cayuga & Seneca Canal. no place, 1839. 3 pp., 9 x 6, b. p. no title-page.
- 37 —Report on the petition of Asa P. Smith, relative to extra work on the Enlarged Erie Canal. Albany, 1843. 27 pp., 9 x 6, b. p.
- 41 —Report on the petition of George Heath asking compensation for the violation, by the State, of his contract. (Assembly, No. 91.) no place, 1844. 5 pp., 10 x 6, b. p. no title-page.
- 41 —Report on the petition of Gerrit C. Sweet asking for additional compensation for work done on the state canals. (Assembly, No. 137.) Albany, 1844. 11 pp., 10 x 6, b. p. no title-page.
- 41 —Report on the petition of Harriet Eddy and Otis Eddy asking for additional compensation for work done on the state canals. (Senate, No. 43.) Albany, 1844. 4 pp., 10 x 6, b. p. no title-page.
- 41 —Report on the petition of John B. Ives asking for an extra allowance on his contract. (Assembly, No. 85.) Albany, 1844. 11 pp., 10 x 6, b. p. no title-page.
- 41 —Report on the petition of John L. Bevins, asking settlement for work done on the state canals. Albany, 1844. 34 + 1 pp., 10 x 6, b. p. no title-page.
- 41 —Report on the petition of John Merriam and others asking compensation for losses on contracts. (Assembly, No. 138.) no place, 1844. 3 pp., 10 x 6, b. p. no title-page.
- 41 —Report on the petition of William McLachlin asking for additional compensation. (Assembly, No. 109.) no place, 1844. 2 pp., 10 x 6, b. p. no title-page.
- 41 —Report on the reference by the Assembly of the petition of Benjamin H. Sage and William B. Williams, asking for additional compensation for work done on the state canals. (Assembly, No. 121.) no place, 1844. 3 pp., 10 x 6, b. p. no title-page.
- 41 —Report on the reference by the Assembly of the petition of Tallman & Noyes asking for additional compensation for work done on the state canals. (Assembly, No. 46.) no place, 1844. 3 pp., 10 x 6, b. p. no title-page.
- 41 —Report on the reference by the Assembly of the petition of William J. Nelson and Ira E. Phillips asking for additional compensation for work done on the state canals. (Assembly, No. 86.) Albany, 1844. 4 pp., 10 x 6, b. p. no title-page.
- 41 —Report on the reference by the Assembly of the petition of William Sternburgh asking for additional compensation for work done on the state canals. (Assembly, No. 55.) Albany, 1844. 3 pp., 10 x 6, b. p. no title-page.
- 41 —Report on the reference by the Assembly of the petition of Yates & Vandebogert asking for additional compensation for work done on the state canals. (Assembly, No. 108.) no place, 1844. 2 pp., 10 x 6, b. p. no title-page.
- 41 —Report on the reference from the Assembly of the petition of Geer & Weaver. (Assembly, No. 23.) Albany, 1844. 2 pp., 10 x 6, b. p. no title-page.
- 41 —Report on the reference from the Assembly of the petition of Geer, Kasson & Breed, asking for additional compensation for work done on the state canals. (Assembly, No. 58.) Albany, 1844. 31 pp., 10 x 6, b. p. no title-page.
- 41 —Report on the reference from the Assembly of the petition of Horace Parmele asking for additional compensation for work done on the state canals. (Assembly, No. 44.) Albany, 1844. 19 pp., 10 x 6, b. p. no title-page.
- 6 —Report on the reference from the Assembly of the petition of John L. Bevins, concerning the award for damages made to him for certain works on the Erie Canal. Albany, 1844. 34 + 1 pp., 9 x 6, b. p. no title-page.
- 41 —Report on the reference from the Assembly of the petition of Marlett & Dunham asking for additional compensation for work done on the state canals. (Assembly, No. 55.) no place, 1844. 3 pp., 10 x 6, b. p. no title-page.
- 41 —Report on the reference from the Assembly of the petition of R. N. Casler, asking for the speedy completion of a bridge across the Erie Canal at Little Falls. (Assembly, No. 133.) Albany, 1844. 2 pp., 10 x 6, b. p. no title-page.
- 41 —Report on the reference from the Assembly of the petition of Sanford & Eggleston asking for additional compensation for work done on the state canals. (Assembly, No. 69.) Albany, 1844. 3 pp., 10 x 6, b. p. no title-page.
- 41 —Report on the reference from the Senate of the petition of J. C. Osgood, asking for additional compensation for work done on the state canals. (Senate, No. 58.) Albany, 1844. 3 pp., 10 x 6, b. p. no title-page.
- 41 —Report on the reference of the petition of A. C. and E. T. Baldwin for an extra allowance on their contract. (Assembly, No. 43.) Albany, 1844. 3 + 1 pp., 10 x 6, b. p. no title-page.
- 41 —Report on the reference of the petition of James H. and Amos B. King asking for additional compensation for work done on the state canals. (Assembly, No. 28.) Albany, 1844. 3 pp., 10 x 6, b. p. no title-page.



## Cfh—(Continued).

- 41 — Report on the reference of the petition of Jason C. Osgood and Daniel F. Kellogg, asking for additional compensation for work done on the state canals. (Senate, No. 59.) Albany, 1844. 7 pp., 10 x 6, b. p. no title-page.
- 41 — Report on the reference of the petition of Thomas R. Brayton and Thomas W. Chesebrough for additional compensation for work done on the state canals. (Assembly, No. 54.) Albany, 1844. 3 pp., 10 x 6, b. p. no title-page.
- 12 — Report relative to a supply of water for the Rome Summit of the Erie Canal. no place, 1836. 11 pp., 9 x 6, b. p.
- 35 — Report relative to the construction of a ship canal between Lake Ontario and the Hudson River. (Assembly, No. 334.) no place, 1835. 23 pp., 9 x 6, b. p.
- 15 — Report upon the petition of Andrew P. Tillman. Albany, 1841. 4 pp., 9 x 6, b. p.
- 35 — Report under the Act of May 3d, 1839, relating to the survey of the several branches of the Hudson River; transmitting the report and estimates of the Engineer; with a communication to the Board from the Surveyor-General. no place, 1840. 35 pp., 10 x 6, b. p.
- 35 — Report under the Act passed May 11th, 1835, in relation to the enlargement of the Erie Canal. (Assembly, No. 98.) no place, 1836. 15 pp., 9 x 6, b. p.
- 63 **NEW YORK—CANAL COMMISSION.** Annual report: 1st-3d; 1872-74. Note: Commission appointed to examine the subject of motive power on the canals. Albany, 1872-74. 3 v., 9 x 6, pap.
- 37 **NEW YORK—CANAL COMMISSIONER.** Report of the Commissioner having charge of the Black River Canal, and the Erie Canal Feeder, giving an estimate of the amount necessary to finish the same. Albany, 1843. 26 pp., 9 x 6, b. p.
- 41 — Report of the Commissioner having charge of the Western Division of the Erie Canal, upon the combined locks at Lockport. Albany, 1844. 7 pp., tab., 10 x 6, b. p.
- 6 — Report of the Commissioner in charge of the Genesee Valley Canal, in answer to the resolution of the Senate, relative to the cost of completing the work on the navigable portion of the Canal. Albany, 1844. 6 pp., 9 x 6, b. p. no title-page.
- 37 — Report of the Commissioner in charge of the Western Division of the Erie Canal, in relation to the combined locks at Lockport. Albany, 1843. 5 pp., 9 x 6, b. p.
- 7 — Report on the survey of the Conewango Canal. no place, 1840. 119 pp., 9 x 6, b. p. no title-page.
- 41 — Statement of Jonas Earll, Jr., in relation to the claim of James H. King and Amos B. King for additional compensation for work done on the state canals. (Assembly, No. 154.) no place, 1844. 4 pp., 10 x 6, b. p. no title-page.
- 24 **NEW YORK—CANAL COMMISSIONERS.** Annual report; 1840-41, '44, '49, '51-59, '61-65, '67-71, '73-74, '76. Note: For reports subsequent to 1878 see New York—Superintendent of Public Works. Albany, 1841-77. 26 v., 9 x 6, cl., pap.
- 10 — Same; 1832, '34. Albany, 1833-35. 2 v., 9 x 6, b. p.
- 4 — Same; 1835-39. Albany, 1836-40. 5 v., 9 x 6, b. p.
- 6 — Same; 1842, '45-47, '50. Albany, 1843-51. 5 v., 9 x 6, b. p.
- 42 — Same; 1843. Albany, 1844. 1 v., 10 x 6, b. p.
- 3 — Same; 1845-49. Albany, 1846-50. 5 v., 9 x 6, b. p.
- 35 — Communication from the Acting Commissioner on the Genesee Valley Canal, transmitting copies of reports made by the Engineer on the said canal. Albany, 1840. 33 pp., 10 x 6, b. p.
- 35 — Communication transmitting the report of the survey in continuation of the Black River Canal. Albany, 1840. 120 pp., map, 10 x 6, b. p.
- 40 — Official report, and the Acts of the Legislature, respecting navigable communications between the Great Western and Northern Lakes and the Atlantic Ocean. N. Y., 1817. 174 + 12 pp., map, 9 x 6, cf.
- 3 — Report as to the supply of water between Tonawanda and Montezuma for the Erie Canal. no place, 1850. 13 pp., pl., map, 9 x 6, b. p. no title-page.
- 7 — Report in answer to a resolution of the Assembly in reference to the cost of the Genesee Valley and the Black River Canals. no place, 1839. 9 pp., 9 x 6, b. p. no title-page.
- 36 — Report in answer to a resolution of the Assembly of the 26th Feb., 1841, relative to contracts on the canals. Albany, 1841. 42 pp., 9 x 6, b. p.
- 6 — Report in answer to a resolution of the Assembly of Mar. 12th, in relation to contracts made for the enlargement of the Erie Canal. Albany, 1844. 6 pp., tab., 9 x 6, b. p.
- 6 — Report in answer to a resolution of the Senate of 25th Feb., 1843, in relation to work on the Genesee Valley Canal. no place, 1843. 7 pp., 9 x 6, b. p. no title-page.
- 6 — Report in answer to a resolution of the Senate, relative to the whole number of resident and assistant engineers, and their names, in the employ of the State for the last year, etc. Albany, 1845. 16 pp., 9 x 6, b. p. no title-page.

## Cfh—(Continued).

- 7 — Report in answer to the resolution of the Assembly, in reference to the locks to be constructed for the improvement and enlargement of the Erie Canal. no place, 1838. 11 pp., 9 x 6, b. p. no title-page.
- 5 — Report in answer to the resolution of the Assembly of the 13th Feb., relative to the enlargement of the Erie Canal. no place, 1838. 11 pp., 9 x 6, b. p. no title-page.
- 6 — Report in answer to the resolution of the Senate relative to the cost of constructing the Genesee Valley Canal. Albany, 1844. 9 pp., 9 x 6, b. p. no title-page.
- 41 — Report . . . in relation to contracts made for the enlargement of the Erie Canal, etc. no place, 1844. 6 pp., tab., 10 x 6, b. p.
- 36 — Report in relation to contracts on the canals. Albany, 1842. 45 pp., 9 x 6, b. p.
- 7 — Report in relation to lands overflowed by water on the Tonawanda and Elicott Creeks. no place, 1838. 15 pp., 9 x 6, b. p. no title-page.
- 37 — Report in relation to the Aqueduct across the Schoharie Creek. Albany, 1843. 8 pp., 9 x 6, b. p.
- 37 — Report in relation to the Cayuga & Seneca Canal, and the outlet of Seneca Lake. Albany, 1843. 16 pp., 9 x 6, b. p.
- 7 — Report in relation to the Chemung Canal Feeder. no place, 1838. 4 pp., 9 x 6, b. p. no title-page.
- 37 — Report in relation to the Genesee Valley Canal. Albany, 1843. 7 pp., 9 x 6, b. p.
- 7 — Report in relation to the improvement of the Chemung Canal. no place, 1840. 21 pp., 9 x 6, b. p. no title-page.
- 16 — Report in relation to the Junction Canal. no place, 1839. 8 pp., 9 x 6, b. p. no title-page.
- 3 — Report in relation to the length and width of the chamber of the Enlarged Erie Canal locks, etc. no place, 1849. 13 pp., pl., 9 x 6, b. p. no title-page.
- 37 — Report in relation to the removal of the Dam on Oswego Falls and the Horse-Shoe Dam. Albany, 1843. 16 pp., 9 x 6, b. p.
- 10 — Report in relation to the survey of the Black River Canal. no place, 1835. 72 pp., 9 x 6, b. p. no title-page.
- 41 — Report of the Acting Canal Commissioners, on the several estimates of the cost of making the Genesee Valley Canal. Albany, 1844. 9 pp., 10 x 6, b. p. no title-page.
- 41 — Report of the Acting Commissioners, on resolutions of the Senate relating to closing the locks on Sunday. (Senate, No. 66.) no place, 1844. 4 + 1 pp., 10 x 6, b. p. no title-page.
- 37 — Report of the Commissioners having in charge the Middle Section of the Erie Canal Enlargement, in relation to the bridges between Little Falls and Utica. Albany, 1843. 5 pp., 9 x 6, b. p.
- 41 — Report on a reference from the Senate of the petition of Silas Ingraham and others, asking for additional compensation for work done on the state canals. (Senate, No. 74.) Albany, 1844. 4 pp., 10 x 6, b. p. no title-page.
- 4 — Report on a resolution of the Assembly, of the 20th Feb., relative to the amount expended and to be expended in the enlargement of the Erie Canal. no place, 1839. 32 pp., 9 x 6, b. p. no title-page.
- 7 — Report on a resolution of the Assembly relative to the construction of the enlargement of the Erie Canal. no place, 1839. 32 pp., 9 x 6, b. p. no title-page.
- 10 — Report on a resolution of the Assembly, relative to the cost of canals and railroads. no place, 1835. 44 pp., 9 x 6, b. p. no title-page.
- Report on a resolution of the Senate of Mar. 4th, 1845. Note: Report on the proposed reservoir on Mill Creek, for supplying the Dansville Branch of the Genesee Valley Canal with water. Albany, 1845. 6 pp., 9 x 6, b. p. De-444, p. 560.
- 3 — Report on Amsden's hydrostatic scale. Albany, 1850. 39 pp., 9 x 6, b. p.
- 16 — Report on the Bill for the relief of Livingston Spraker relative to compensation for certain blasting at Little Falls. no place, 1839. 3 pp., 9 x 6, b. p. no title-page.
- 38 — Report on the canals from Lake Erie to the Hudson River, and from Lake Champlain to the same; presented to the Legislature Jan. 31st, 1818. Albany, 1818. 45 pp., 9 x 6, b. p.
- 36 — Report on the petition of Franklin Livingston and David B. King. Note: Prays for remuneration by the State because of infringement of their patent on the wicket or paddle gate. no place, 1841. 4 pp., 9 x 6, b. p.
- 6 — Report on the petition of inhabitants of Camillus for the use of the surplus waters of the Erie Canal. no place, 1841. 3 pp., 9 x 6, b. p. no title-page.
- 7 — Report on the petition of inhabitants of the Counties of Onondaga, Oneida, Oswego and Madison for the purchase by the State of the Oneida Lake Canal Feeder. no place, 1840. 5 pp., 9 x 6, b. p. no title-page.

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- 5 —Report on the petition of John Stewart and others, and Cody, Beaumont & Hecox, relative to contracts for work on the Erie Canal. no place, 1833. 40 pp., 9 x 6, b. p. no title-page.
- 37 —Report on the petition of Jonas Ingraham, Daniel Bolles and others, praying for the reenactment of a law, passed May 1st, 1839, relating to the Genesee Valley Canal. Albany, 1843. 7 pp., 9 x 6, b. p.
- 4 —Report on the petition of Marlatt & Dunham relative to the contract of the 13th Jan., 1837, for the construction of Lock No. 3 of the enlargement of the Erie Canal. no place, 1839. 2 pp., 9 x 6, b. p. no title-page.
- 4 —Report on the petition of Page, Kellogg, Sage & Co., and Clark, Strover & Sumner, relative to contracts for the construction of locks on the Glen's Falls Feeder to the Champlain Canal. no place, 1839. 4 pp., 9 x 6, b. p. no title-page.
- 5 —Report on the petition of Peter Bargy, Jr., relative to contracts for work on the Chenango Canal. no place, 1837. 36 pp., 9 x 6, b. p. no title-page.
- 6 —Report on the petition of sundry inhabitants of Washington and Rensselaer Counties, for a side-cut from the Champlain Canal into the Hudson River at Stillwater. no place, 1841. 6 pp., 9 x 6, b. p. no title-page.
- 36 —Report on the petition of the Cohoes Co. (Senate, No. 60.) Note: Prays for compensation for damage to property done by the enlargement of the Erie Canal. no place, 1837. 6 pp., 9 x 6, b. p.
- 6 —Report on the petition of the inhabitants of Monroe County, praying for the removal of the canal feeder dam on the Genesee River. no place, 1841. 3 pp., 9 x 6, b. p. no title-page.
- 41 —Report on the petition of the inhabitants of Watervliet for the construction of two bridges over the canal at West Troy. (Assembly, No. 149.) no place, 1844. 2 pp., 10 x 6, b. p. no title-page.
- 41 —Report on the petition of Timothy Eddy asking for compensation for damages done his property by the failure of the Fort Edward Dam. (Senate, No. 48.) no place, 1844. 4 pp., 10 x 6, b. p. no title-page.
- 4 —Report on the petition of William Coleman and others, relative to contracts for constructing Locks Nos. 7, 9, 10, 11 and 12 of the enlargement of the Erie Canal. no place, 1839. 2 pp., 9 x 6, b. p. no title-page.
- 5 —Report on the petition of William L. Crossett, Amos Story and Moses Cole, relative to the contract for constructing Section No. 2 of the Northern Division of the Chenango Canal. no place, 1837. 42 pp., 9 x 6, b. p. no title-page.
- 36 —Report on the petition of William Newton. (Assembly, No. 81.) Note: Prays for lease of the surplus waters of the Chenango Canal. no place, 1841. 2 pp., 9 x 6, b. p.
- 41 —Report on the reference by the Assembly of the petition of Samuel Cheever asking for the maintenance by the State of the fence bordering the Champlain Canal. (Assembly, No. 130.) no place, 1844. 3 pp., 10 by 6, b. p. no title-page.
- 36 —Report on the resolution of the Assembly, calling for information relative to engineers in the employ of the State. no place, 1842. 40 pp., 9 x 6, b. p.
- 6 —Report on the resolution of the Assembly in relation to the Cayuga & Seneca Canal, and the outlet of the Seneca Lake. no place, 1843. 16 pp., 9 x 6, b. p. no title-page.
- 37 —Report on the resolution of the Assembly in relation to the Oneida Creek Feeder. Albany, 1843. 3 pp., 9 x 6, b. p.
- 10 —Report on the resolution of the Assembly relative to the Crooked Lake Canal. no place, 1835. 18 pp., 9 x 6, b. p. no title-page.
- 6 —Report on the resolution of the Senate in reference to the number and names of the engineers and assistant engineers employed on the unfinished public works during the years 1842 and 1843. no place, 1844. 11 pp., tab., 9 x 6, b. p.
- 7 —Report pursuant to the Act authorizing a survey of a canal from the termination of the Chemung Canal to the State Line. no place, 1840. 57 pp., 9 x 6, b. p. no title-page.
- 7 —Report relative to releasing the surplus waters of the Glens Falls Feeder Dam. no place, 1840. 2 pp., 9 x 6, b. p.
- 36 —Report relative to the estimated cost of a canal from the head of Seneca Lake to the Village of Havana. Albany, 1841. 5 pp., 9 x 6, b. p.
- 10 —Report relative to the improvement of the Erie Canal. no place, 1835. 72 pp., 9 x 6, b. p. no title-page.
- 10 —Report relative to the survey of a canal route from Rochester to Olean. no place, 1835. 176 pp., 9 x 6, b. p. no title-page.
- 5 —Report to the Assembly relative to altering the plan adopted by them for the construction of the Enlarged Erie Canal. no place, 1838. 16 pp., 9 x 6, b. p. no title-page.
- 6 —Report to the Assembly relative to the contracts now existing for the enlargement of the Erie Canal, and the construction of the Genesee Valley and the Black River Canals. no place, 1841. 42 pp., 9 x 6, b. p. no title-page.



**Cfh—(Continued).**

- 5 —Report to the Assembly relative to the property appropriated for the enlargement of the Erie Canal. no place, 1838. 9 pp., 9 x 6, b. p.
- 7 —Report to the Legislature of their opinion of the propriety of constructing the Enlarged Erie Canal, independent of the Niagara River; and also their opinion of the effects of the dam at Black-Rock, in raising the waters of Lake Erie, etc. no place, 1839. 16 pp., 9 x 6, b. p. no title-page.
- 7 —Report to the Senate relative to the amount of work under contract on the Genesee Valley Canal. no place, 1839. 3 pp., 9 x 6, b. p. no title-page.
- 22 **NEW YORK—CANAL DEPARTMENT.** Annual financial report of the Auditor; 1865-67, '69-73, '75-78, '80. Albany, 1866-81. 13 v., 9 x 6, cl., pap.
- 17 —Annual report on the tolls, trade and tonnage of the canals of the State of New York; 1854, '65, '67-69, '71-73, '76-79, '81. Albany, 1855-82. 13 v., 9 x 6, cl., pap.
- 38 —Digest of claims presented to the Canal Board from the organization of the Board to Mar. 1st, 1851. Albany, 1851. 47 pp., 9 x 6, b. p.
- Report of the Auditor, in answer to a resolution of the Senate calling for the proceedings of the Canal Board in relation to complaints or charges against certain Canal Superintendents. no place, 1853. 273 pp., tab., 9 x 6, b. p. no title-page. Ad-251, p. 3013.
- 71 **NEW YORK—CANAL INVESTIGATING COMMISSION.** Report of the Commission of 1898. Albany, 1898. 156 pp., 9 x 6, pap.
- 20 —Testimony taken before the Commission. no place, 1875. 3v., 2653 + 6 pp., 10 x 6, pap. no title-page.
- NEW YORK—COMMISSION ON CANAL NAVIGATION.** Annual report; 2d; 1873. Albany, 1873. 1 v., 9 x 6, b. p. Ab-7, p. 807.
- 1 **NEW YORK—COMMISSIONERS OF THE CANAL FUND.** Annual report; 1835, '37-39. Albany, 1836-40. 4 v., 9 x 6, b. p.
- 14 —Same; 1836. Albany, 1837. 1 v., 10 x 6, b. p.
- 8 —Same; 1837, '39-41. Albany, 1838-42. 4 v., 9 x 6, b. p.
- 2 —Same; 1842, '44-47. Albany, 1843-48. 5 v., 9 x 6, b. p.
- 38 —Same; 1850. Albany, 1851. 1 v., 9 x 6, b. p.
- 59 —Same; 1859. Albany, 1860. 1 v., 9 x 6, pap.
- 12 —Annual report of the amount of tolls collected and property transported on the canals; 1835. Albany, 1836. 1 v., 9 x 6, b. p.
- 1 —Same; 1837-39. Albany, 1838-40. 2 v., 9 x 6, b. p.
- 36 —Same; 1841. Albany, 1842. 1 v., 9 x 6, b. p.
- 37 —Same; 1842. Albany, 1843. 1 v., 9 x 6, b. p.
- 2 —Same; 1843. Albany, 1844. 1 v., 9 x 6, b. p.
- 34 —Report in answer to a resolution of the Assembly respecting the tonnage of the Erie Canal. Albany, 1841. 4 pp., 9 x 6, b. p.
- 37 —Report in answer to three resolutions of the Senate relative to repairs, improvements and loans on the canals. Albany, 1843. 23 pp., 9 x 6, b. p.
- 37 —Report in relation to loans of the Canal Fund to certain banks. Albany, 1843. 37 pp., tab., 9 x 6, b. p.
- 3 —Report in reply to a resolution of the Senate, passed Mar. 14th, 1850, relative to improvements to be made on certain canals referred to in their annual report. no place, 1850. 5 pp., 9 x 6, b. p. no title-page.
- 1 —Report to the Legislature relative to the amounts credited to the Commissioners in different banks. no place, 1840. 8 pp., 9 x 6, b. p. no title-page.
- 86 **NEW YORK—COMMITTEE ON CANALS.** Report. Note: Report relates to the policy of the State in regard to the canal question. N. Y., 1899. 231 pp., il., 69 tab., maps, 9 x 6, pap.
- 10 **NEW YORK—COMPTROLLER.** Annual report of expenditures upon the canals; 1832. Albany, 1833. 1 v., 9 x 6, b. p.
- Same; 1835-36. Albany, 1836-37. 2 v., 9 x 6, b. p. Cff-1, p. 535.
- 9 —Same; 1838-40. Albany, 1839-41. 3 v., 9 x 6, b. p.
- 37 —Same; 1841-42. Albany, 1842-43. 2 v., 9 x 6, b. p.
- 11 —Same; 1843, '45-46. Albany, 1844-47. 3 v., 9 x 6, b. p.
- 84 —Same; 1898. Albany, 1899. 1 v., 9 x 6, pap.
- 37 —Report in answer to a resolution of the Assembly in reference to "the amount of money necessary to be raised or means provided for canal and State purposes during the current year." Albany, 1843. 4 pp., 9 x 6, b. p.
- 37 —Report in answer to a resolution of the Assembly respecting the pledges of the proceeds of the Mill Tax. Albany, 1843. 3 pp., 9 x 6, b. p.
- 37 —Report in answer to a resolution of the Senate in relation to contracts on the enlarged canal between Albany and Troy. Albany, 1843. 2 pp., 9 x 6, b. p.

**Cfh—(Continued).**

- 12 — Report in answer to a resolution of the Senate requesting information in relation to the revenues of the lateral canals. Albany, 1836. 10 pp., 9 x 6, b. p.
- 37 — Report in relation to expenditures on the enlargement of the Erie Canal from Sections Nos. 1 to 14. Albany, 1843. 39 pp., 9 x 6, b. p.
- 23 — Report in relation to the sales of land near the Oswego Canal, and the contributions to, and diversions from, the Erie Canal, by the lateral canals. Albany, 1836. 78 pp., 9 x 6, b. p.
- 37 — Report in relation to tolls on passengers conveyed on the Erie Canal. Albany, 1843. 4 pp., 9 x 6, b. p.
- 36 — Report of the Comptroller, Commissioners of the Canal Fund, and the Canal Commissioners, in compliance with the resolutions of the 25th Jan. (Assembly, No. 64.) no place, 1842. 41 pp., 9 x 6, b. p.
- 2 — Report of the Comptroller, Commissioners of the Canal Fund and the Canal Commissioners, to the Assembly, relative to certain statements, facts and estimates, in reference to their respective departments. no place, 1852. 41 pp., 9 x 6, b. p. no title-page.
- 37 — Report of the nature of, and payments for, services rendered by non-acting Canal Commissioners in each of the last six years. Albany, 1843. 6 + 1 pp., 9 x 6, b. p.
- 37 — Report of the public services of non-acting Canal Commissioners and pay therefor, from 1828 to 1842. Albany, 1843. 5 pp., 9 x 6, b. p.
- 58 **NEW YORK—LEGISLATURE.** Communication from State Officers, together with documents, remarks and opinions relating to repairs of the New York state canals. Albany, 1865. 49 pp., 9 x 6, pap.
- 37 — Report of the Joint Committee appointed to examine the condition of the Banking Department, the Canal Department and the Treasury. Albany, 1843. 19 pp., 9 x 6, b. p.
- 15 — Report of the Joint Committee of the Senate and Assembly appointed to examine the accounts of the Treasurer, Canal Commissioners and Commissioners of the Canal Fund and the Banking Department of the Comptroller's Office. Albany, 1841. 29 pp., 10 x 6, b. p.
- 16 — Report of the Joint Committee of the Senate and Assembly appointed to examine the accounts of the Treasurer, the Commissioners of the Canal Fund, and the Canal Commissioners. Albany, 1839. 34 pp., 9 x 6, b. p.
- 18 — Reports of the Majority and Minority of the Joint Select Committee on Canal Lettings, relative to the actions of the Canal Board, the Canal Commissioners, State Engineer and Surveyor, etc., in awarding contracts for work on certain canals. no place, 1852. various pagings, 9 x 6, ¾ sh. no title-page.
- 37 **NEW YORK—SENATE.** Report of the Select Committee appointed to examine into any abuses by the Canal Commissioners in letting contracts upon the canals, etc. Albany, 1843. 70 pp., 9 x 6, b. p.
- 6 **NEW YORK—(SENATE) COMMITTEE ON CANALS.** Report of the Majority of the Committee relative to the work on unfinished canals in the State. no place, 1844. 61 pp., 9 x 6, b. p. no title-page.  
— Report of the Majority, on the petitions and memorials relative to the construction of the Black River Canal. no place, 1836. 15 pp., 9 x 6, b. p. no title-page. Cff-1, p. 663.
- 42 — Report of the Minority. Note: Protests against the additional expenditures on canals. Albany, 1844. 61 pp., 10 x 6, b. p.
- 37 — Report of the Minority of the Committee on the petition of the inhabitants of Root, Montgomery County, praying for an appropriation of money to complete the enlargement of the Erie Canal, from Section No. 51 to Section No. 57. Albany, 1843. 6 pp., 9 x 6, b. p.
- 57 — Report on so much of the Governor's Message as relates to the superintendence and repairs of the canals; and the engrossed Bill from the Assembly, entitled "An act relative to canal repairs and to reduce the expenses thereof." (Senate, No. 63.) no place, 1847. 61 pp., tab., 10 x 6, pap.
- 16 — Report on the Bill to authorize the United States to construct the Niagara Ship Canal. no place, 1839. 14 pp., 9 x 6, b. p. no title-page.
- 16 **NEW YORK—(SENATE) COMMITTEE ON CANALS AND INTERNAL IMPROVEMENTS.** Report on petitions for the extension of the Chenango Canal from Binghamton to the State Line near Tioga Point. no place, 1840. 5 pp., 9 x 6, b. p. no title-page.
- 41 **NEW YORK—(SENATE) COMMITTEE ON CLAIMS.** Report of the Minority of the Committee on the petition of Ira E. Phillips and William J. Nelson asking additional compensation for work done on the state canals. no place, 1844. 2 pp., 10 x 6, b. p. no title-page.
- 41 — Report of the Minority of the Committee, on the petitions of Harriet Eddy and Otis Eddy and the papers accompanying the same, asking for additional compensation for work done on the state canals. no place, 1844. 10 pp., 10 x 6, b. p. no title-page.

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- 37 —Report on the petition of Jacob Vandemark for additional compensation for constructing Lock Section No. 1, and Section No. 4 of the Genesee Valley Canal. Albany, 1843. 6 pp., 9 x 6, b. p.
- 37 —Report on the petition of John Ryan and others relative to the construction of Sections Nos. 1, 4 and 84 of the Erie Canal Enlargement. Albany, 1843. 6 pp., 9 x 6, b. p.
- 37 —Report on the petition of Joseph M. Kasson and Henry Cady relative to the construction of the Aqueduct over the Genesee River at Rochester. Albany, 1843. 4 pp., 9 x 6, b. p.
- 37 —Report on the petition of Orrin Chamberlin for relief relative to the damaging of certain land by the construction of the Seneca & Cayuga Canal. Albany, 1843. 2 pp., 9 x 6, b. p.
- 37 —Report on the petition of Otis Eddy and others praying for a law for the settlement of claims arising under canal contracts. Albany, 1843. 3 pp., 9 x 6, b. p.
- 41 —Report on the petition of Sage, Walrath & Dunham, asking for additional compensation for work done on the state canals. no place, 1844. 10 pp., 10 x 6, b. p. no title-page.
- 38 —Report on the petition of Sage, Walrath & Dunham for extra allowance for work on the combined locks, Nos. 18, 19 and 20, on the Northern Division of the Chenango Canal. Albany, 1851. 8 pp., 9 x 6, b. p.
- 41 —Report on the petition of Timothy Eddy asking compensation for damages done his property by the failure of the Fort Edward Dam. no place, 1844. 2 pp., 10 x 6, b. p. no title-page.
- 41 —Report on the petition of William Page asking compensation for damage done his property by reason of the defective construction of the Erie Canal. no place, 1844. 1 p., 10 x 6, b. p. no title-page.
- 37 —Report relative to the claims of P. Fitzsimmons and J. Brady for extra allowance for constructing Sections Nos. 5, 8 and 9 of the enlargement of the Erie Canal. Albany, 1843. 2 pp., 9 x 6, b. p.
- 41 —Report upon the petition of Asa T. Smith asking for additional compensation for work done on the state canals. no place, 1844. 3 pp., 10 x 6, b. p. no title-page.
- 41 —Report upon the petition of S. S. Riddle and others asking for additional compensation for work done on the state canals. no place, 1844. 3 pp., 10 x 6, b. p. no title-page.
- 41 **NEW YORK—(SENATE) COMMITTEE ON FINANCE.** Report on the petition of Ira E. Phillips and William J. Nelson asking for additional compensation for work done on the state canals. (Senate, No. 44.) no place, 1844. 3 pp., 10 x 6, b. p. no title-page.
- 15 —Report, on various reports referred, of the State Officers. Albany, 1841. 14 + 1 pp., 9 x 6, b. p.
- 25 **NEW YORK—STATE ENGINEER AND SURVEYOR.** Annual report on the canals of New York, for the fiscal year ending Sept. 30th; 1850-97. Note: Reports, 1861, '65, '75, '96 wanting. Albany, 1851-98. 47 v., 9 x 6, cl., pap.
- 30 —Communication in response to a resolution asking for information in relation to progress made during the year 1874, in the introduction of steam power on the canals of the State. Albany, 1875. 9 + 3 pp., 9 x 6, b. p.
- 70 —Communication to Governor Black on the report of the Canal Investigating Commission. Albany, 1898. 89 pp., 9 x 6, pap. no title-page.
- 28 —Genesee River storage surveys: Report of George W. Rafter. Albany, 1897. 176 pp., pl., maps. 9 x 6, pap.
- 64 —Prosperity of our canals: Report to the Legislature of New York. Albany, 1881. 14 pp., 9 x 6, pap.
- 27 —Report on the Genesee River storage. Albany, 1894. 107 pp., pl., map, tab., 9 x 6, pap.
- 68 —Report on the water supply of the Western Division of the Erie Canal, by George W. Rafter. Albany, 1897. 52 pp., maps, 9 x 6, pap.
- 85 **NEW YORK—SUPERINTENDENT OF PUBLIC WORKS.** Annual report on the canals of the State; Sept. 30th, 1878, '81, '96. Albany, 1879-97. 3 v., map, 9 x 6, cl.
- 72 —Communication of George W. Aldridge to Governor Black, on the report of the Canal Investigating Commission of 1898. no place, no date. unpagged, 11 x 8, pap. newspaper slips.
- 37 **NEW YORK—SURVEYOR-GENERAL.** Report relative to the incorporated canal and railroad companies. Albany, 1843. 8 pp., 9 x 6, b. p.
- OHIO—BOARD OF CANAL COMMISSIONERS.** Annual report; 15th; 1838. Columbus, 1839. 1 v., 9 x 6, b. p. Cfg-2, p. 261.
- 31 **OHIO—BOARD OF PUBLIC WORKS.** Annual report to the General Assembly; 15th; 1851. Columbus, 1852. 1 v., 9 x 6, b. p.



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- PENNSYLVANIA—AUDITOR GENERAL.** Report of the several railroad and canal companies; 1861-74. 1862-74. (See Ah-1.)
- Tabulated results compiled from the annual reports of railroad, passenger railway, canal and telegraph companies; 1873-75. 1874-76. (See Ah-41.)
- PENNSYLVANIA—AUDITOR GENERAL AND PENNSYLVANIA—STATE TREASURER.** Cost, revenue and expenditure of the public works of Pennsylvania to Nov. 30th, 1853. 1854. (See Ah-37.)
- PENNSYLVANIA—CANAL COMMISSIONERS.** Annual report; 1826. no place. 1826. 1 v., 9 x 6, b. p. no title-page. Cfb-80, p. 67.
- 52 —Same; 1837-38, '44. Harrisburg, 1837-44. 3 v., 9 x 6, pap.
- Same; 1836, '38. Harrisburg, 1836-38. 2 v., 9 x 6, b. p. Cfg-2, p. 285.
- 19 —Same; 1839. Harrisburg, 1840. 1 v., 8 x 5, b. p.
- 74 —Same; 1840-41. Harrisburg, 1841-42. 2 v., 8 x 5, b. p.
- 32 —Same; 1850, '52. Harrisburg, 1851-52. 2 v., 9 x 6, b. p.
- Report relative to the location and construction of the Pennsylvania Canal. 1829. (See Zj-169, p. 225.)
- 51 **PENNSYLVANIA—(HOUSE) COMMITTEE ON INLAND NAVIGATION.** Report relative to an aqueduct over the Delaware River; together with the amendment of Mr. Porter. Note: Relates to the proposed aqueduct of the Morris Canal & Banking Co. Harrisburg, 1850. 9 pp., 9 x 6, pap.
- PENNSYLVANIA—SECRETARY OF INTERNAL AFFAIRS.** Annual report; 1875-76, '80, '84-85. (See Ah-2.)
- Tabulated results compiled from the annual reports of railroad, passenger railway, canal and telegraph companies operated in the State of Pennsylvania; 1875. (See Ah-40.)
- PENNSYLVANIA—(SENATE) COMMITTEE ON VICE AND IMMORALITY.** Report of the Committee to whom was referred the Message of the Governor and sundry memorials relating to the abolition of lotteries. Note: Relates particularly to the Union Canal Lotteries. Harrisburg, 1832. 15 pp., 8 x 5, b. p. Cfe-28, p. 16.
- 65 **PENNSYLVANIA—SHIP CANAL COMMISSION.** Report of the Lake Erie and Ohio River Ship Canal Commission, in relation to the feasibility of connecting the waters of Lake Erie and the Ohio River by a ship canal. no place, 1889. unpagged, 11 x 8, pap. no title-page.
- 66 —Report to the General Assembly of 1891, respecting the feasibility of a ship canal to connect the waters of Lake Erie and the Ohio River. Erie, Pa., 1891. 183 pp., 9 x 6, pap.
- VIRGINIA—BOARD OF PUBLIC WORKS.** Annual report to the General Assembly of Virginia, with accompanying documents; 34th; 1849. Richmond, 1849. 1 v., 9 x 6, b. p. Cfg-1, v. 3, p. 478.
- VIRGINIA—COMMITTEE ON ROADS AND INLAND NAVIGATION.** Report at the Session of the Legislature of 1831-32, presenting a review of the various public acts, resolutions, reports and surveys touching the subject of the connection of the Eastern and Western waters through the territory of Virginia. 1841. (See Cfg-1, v. 1, p. 871.)
- VIRGINIA—COMMITTEE ON THE JAMES RIVER & KANAWHA CO.** Report. 1842. (See Cfg-1, v. 2, p. 174.)
- Report on the memorial of the President and Directors of the Company. 1845. (See Cfg-1, v. 2, p. 549.)
- 32 **WISCONSIN—BOARD OF PUBLIC WORKS.** Annual report; 1853. Madison, 1853. 1 v., 8 x 6, b. p.

**WATERWAYS—CANALS—REPORTS, GOVERNMENT.****Cfi**

- 24 **CANADA—CANAL COMMISSION.** Letter from the Canal Commissioners respecting the improvement of the inland navigation of the Dominion of Canada. Ottawa, 1871. 329 pp., 9 x 6, pap.
- 15 **CANADA—DEPARTMENT OF PUBLIC WORKS.** Baie Verte Canal: Report of the Chief Engineer on the construction of a canal between the Gulf of St. Lawrence and the Bay of Fundy. Ottawa, 1874. 89 pp., map, 10 x 7, pap.
- General report of the Minister; 1851-53, '55-71, '76. (See Ca-45.)
- Report of the Chief Engineer on the enlargement of the Welland Canal. Ottawa, 1872. 44 pp., 9 x 6, b. p. Cfb-7, p. 77.
- 14 —Report of the Chief Engineer on the progress of canal enlargement between Lake Erie and Montreal. Ottawa, 1877. 91 pp., tab., 10 x 6, pap.
- Report of the Commissioners; 1851. Quebec, 1852. 1 v., 9 x 6, b. p. Cfh-31, p. 1049.

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- CANADA—DEPARTMENT OF RAILWAYS AND CANALS. Annual report; 1881-98. Note: Report for 1896 wanting. 1881-99. (See Ai-2.)
- 26 — Report of the Chief Engineer of Canals. Ottawa, 1880. 592 pp., maps, 9 x 7,  $\frac{3}{4}$  mor.
- CANADA—INTERNAL REVENUE DEPARTMENT. Canal statistics for the season of navigation; 1874. Ottawa, 1874. 1 v., 9 x 6, b. p. Cfh-30, p. 713.
- 30 FRANCE—MINISTÈRE DE L'INTERIEUR. Rapport au Roi sur la situation, au Mars, 1829, des canaux et autres ouvrages. Paris, 1829. 144 pp., 11 x 9, cf.
- GREAT BRITAIN—BOARD OF TRADE. Report of proceedings under Section 31 of the Railway and Canal Traffic Act, 1888, including proceedings upon complaints made under Section 1 of the Railway and Canal Traffic Act, 1894. 1897. (See Ai-58.)
- 32 — Returns in pursuance of the Railway and Canal Traffic Act, 1888, in respect of the canals and navigations in the United Kingdom; 1888, '98. Lond., 1888-99. 2 v., 13 x 8, pap.
- 28 GREAT BRITAIN—COMMISSIONERS OF THE CALEDONIAN CANAL. Report; 1st-65th; 1804-70. no place, 1804-70. 65 v. in 5, 14 x 9,  $\frac{3}{4}$  ro.
- GREAT BRITAIN—SELECT COMMITTEE ON RAILWAY AND CANAL BILLS. Report; 1st-5th. 1852-53. (See Ai-47.)
- 29 GREAT BRITAIN—SELECT COMMITTEE ON THE CALEDONIAN AND CRINAN CANALS. Report; together with the minutes of evidence, and appendix, 1839-40, '42. no place, 1839-42. 3 v. in 1, 14 x 9,  $\frac{3}{4}$  ro.
- 25 UNITED STATES—BOARD OF ENGINEERS. Nicaragua Canal: The report of the Board of Engineers for the purpose of ascertaining the feasibility, permanence and cost of construction and completion of the Nicaragua Canal by the route contemplated and provided for by the Act which passed the Senate, Jan. 23th, 1895. (54th Cong., 1st Sess. House doc. No. 279.) Wash., 1896. 187 pp., 24 pl., 9 x 6, cl.
- 9 UNITED STATES—BOARD OF INTERNAL IMPROVEMENT. Report on the Chesapeake & Ohio Canal to Chief Engineer Alexander Macomb, Oct. 23d, 1826. Annapolis, 1873. 102 pp., 9 x 6, pap.
- UNITED STATES—CENSUS, 10th, 1880. Report on the canals of the United States. T. C. Purdy. 1883. (See Qc-10.4, p. 725.)
- 2 UNITED STATES—CORPS OF ENGINEERS. Letter from the Chief of Engineers in answer to a resolution of the House, in relation to a ship-canal to connect the Mississippi River with the Gulf of Mexico. (43d Cong., 1st Sess. House ex. doc. No. 113.) Wash., 1874. 92 pp., 9 x 6, b. p.
- 19 — Reports on the grand waterways of Pennsylvania in the years 1878, 1879 and 1880. Harrisburg, 1881. 72 pp., map, 9 x 6, pap.
- 11 UNITED STATES—DEPARTMENT OF STATE. Instructions of the Secretary to Rear-Admiral Daniel Ammen and A. G. Menocal, U. S. Navy, delegates on the part of the United States to the Inter-oceanic Canal Congress, held at Paris, May, 1879; and reports of proceedings of the Congress. Wash., 1879. 21 pp., 9 x 6, pap.
- 4 — Report of the Secretary relative to the steps taken by the Government of the United States to promote the construction of an inter-oceanic canal across the Isthmus of Darien. (46th Cong., 1st Sess. House ex. doc. No. 10.) Wash., 1879. 3 pp., 9 x 6, pap.
- 2 UNITED STATES—ENGINEER DEPARTMENT. Reports upon Fort St. Philip Canal and construction of jetties for the improvement of the mouths of the Mississippi. Wash., 1874. 126 pp., maps, 9 x 6, b. p.
- 13 UNITED STATES—(HOUSE) COMMITTEE ON COMMERCE. James River and Kanawha Canal; or, Central Water Line of Virginia; report submitted Feb. 13th, 1873. Richmond, Va., 1873. 13 pp., 9 x 6, pap.
- 23 — Report of the Committee to whom was referred "a petition of the merchants and steam-boat owners of the Valley of the Ohio and Mississippi, praying Congress to purchase the individual stock in the Louisville & Portland Canal for the purpose of making it free from toll." (29th Cong., 1st Sess. House, No. 6.) no place, 1845. 10 pp., 9 x 6, pap.
- 3 UNITED STATES—(HOUSE) COMMITTEE ON FOREIGN AFFAIRS. Report on the Nicaragua Canal. (47th Cong., 1st Sess. House rep. No. 1698.) Wash., 1882. 6 pp., map., 9 x 6, pap.
- 27 UNITED STATES—(HOUSE) COMMITTEE ON INTERSTATE AND FOREIGN COMMERCE. Hearings on House Bill 85, on the Nicaragua Canal, before the Committee. Wash., 1896. 386 pp., 9 x 6, pap.
- 16 UNITED STATES—(HOUSE) COMMITTEE ON RAILWAYS AND CANALS. Report of the Committee to whom was referred the Bill (H. R. 4507) to abolish all tolls on the Louisville & Portland Canal. (46th Cong., 2d Sess. House rep. No. 348.) no place, 1880. 3 pp., 9 x 6, pap.

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- 8 **UNITED STATES—(HOUSE) COMMITTEE ON ROADS AND CANALS.** Report from the Committee to whom was referred the memorial and report of the proceedings of the Chesapeake & Ohio Canal Convention, together with the report of the United States Board of Engineers in relation to the route, plan and estimated cost of that canal. (19th Cong., 2d Sess. House, No. 90.) no place, 1827. pp. 1-122, 10 x 6, pap.
- 1 — Report relative to the joint memorial of the Central Committee and the Commissioners appointed by Virginia, Maryland, and the United States to open books for the subscription of stock in the Chesapeake & Ohio Canal, with sundry petitions from the citizens of Pennsylvania and Maryland. (19th Cong., 1st Sess. House doc. No. 228.) no place, 1826. 122 pp., map, 9 x 6, b. p.
- 10 **UNITED STATES—(HOUSE) SELECT COMMITTEE ON INTEROCEANIC SHIP CANAL.** Report of the Minority of the Committee stating objections to what is known as the Eads Bill for the construction of a ship railway across the Isthmus of Tehuantepec; also evidence before the Committee by J. Lawrence Smith upon the routes for the Panama and Nicaragua Canals. (46th Cong., 3d Sess. House misc. doc. No. 13.) no place, 1881. 14 pp., 9 x 6, pap.
- 6 — Testimony taken before the Committee in regard to the selection of a suitable route for the construction of an interoceanic ship canal across the American Isthmus. (46th Cong., 3d Sess. House misc. doc. No. 16.) Wash., 1881. 129 + 1 pp., 9 x 6, pap.
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# WATER SUPPLY.

## WATER SUPPLY—GENERAL.

Da

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- 94 **ASHBURNER, C. A.** Description of the Wilcox spouting water-well. no place, 1877. 8 pp., pl., 9 x 6, pap. no title-page.
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- 24a — *Expériences sur la contraction des veines liquides, et sur la distribution des vitesses dans leur intérieur.* Paris, 1845. 63 pp., 11 x 9, pap.
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- HAWORTH, ERASMUS.** Underground waters of Southwestern Kansas. (U. S. Geological Survey. Water Supply and Irrigation Papers.) Wash., 1897. 65 pp., pl., maps, 10 x 6, pap. De-81, No. 6.
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- 63 **PRONY, G. C. F. M. R., BARON DE.** Nouvelle architecture hydraulique; contenant l'art d'élever l'eau au moyen de différentes machines, de construire dans ce fluide, de le diriger, et généralement de l'appliquer, de diverses manières, aux besoins de la société. Paris, 1790-96. 2 v., 52 pl., 12 x 9, bds.
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- 430 ALBANY, N. Y. Act to provide for a supply of water in the City of Albany; passed Apr. 9th, 1850. New York-Legislature. no place, 1850. 11 pp., 9 x 6, b. p.

- 322 — Annual report of the Water Commissioners; 1851-88, '92-99. Albany, 1852-1900. 45 v., 9 x 6, pap.

- 441 — Articles of agreement, for water-works, Albany, N. Y. no place, 1850. 9 pp., 9 x 6, b. p. no title-page.

- 432 — Form of articles of agreement used by the Water Commissioners in contracting for the excavation of trenches. no place, 1850. 7 pp., 9 x 6, b. p. no title-page.

- 432 — Form of articles of agreement used by the Water Commissioners in contracting for the hauling of water pipes. no place, 1850. 4 pp., 9 x 6, b. p. no title-page.

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- 720 — Report of the Special Water Commission to the Common Council, on a water supply for the City of Albany. no place, 1885. pp. 571-618, 9 x 6, pap. no title-page.

- 432 — Report of the Water Commissioners to the Common Council, on various plans and reports relative to supplying the city with water, Oct. 12th, 1849. 8 pp., 9 x 6, b. p. newspaper slips. no title-page.

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- 441 — Report of the Water Committee, made in accordance with a resolution of inquiry as to the impure water furnished the city, west of Pearl Street, from the Bleecker Reservoir. Albany, 1855. 26 pp., 9 x 6, b. p.
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- 432 — Specifications and conditions to be observed by persons agreeing to haul pipes in the City of Albany. no place, 1851. 2 pp., 9 x 6, b. p. no title-page.
- 432 — Specifications for excavating and back-filling trenches for water pipes. no place, no date. 3 pp., 9 x 6, b. p. no title-page.
- 432 — Specifications of the manner of constructing the conduit, culverts, reservoirs, etc. no place, 1850. 12 pp., 9 x 6, b. p. no title-page.
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- 2 — Proceedings of the annual meeting of the Stockholders of the Water Co.; 1871-79. Alexandria, 1871-79. 8 v., 8 x 6, pap.
- 4 — Rules and regulations governing the introduction, supply, and consumption of water. Alexandria, 1867. 17 pp., 7 x 5, pap.
- 186 **ALLEGHENY, PA.** Annual report of the Committee on Water, also reports of the Superintendent of Water-Works and the Water Assessor; 1875. no place, no date. pp. 219-234, 9 x 6, pap. no title-page.
- 7 — Annual report of the Superintendent of Water-Works; 1878. no place, no date. 1 v., 9 x 6, pap.
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- 251 — Report of the Special Committee on Water Supply, on the subject of water supply for the City of Allegheny. Pittsburg, 1870. 25 + 1 pp., 9 x 6, pap.
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- AMSTERDAM, NETHERLANDS.** Short account of the water-works of Amsterdam, Rotterdam and The Hague. L. C. van Kerkwyck. 1876. (See Cb-214, p. 196.)
- 265 **ANNAPOLIS, MD.** Report of the President and Directors of the Annapolis Water Co., to the Stockholders; 1st; 1867. Annapolis, 1867. 1 v., 9 x 6, pap.
- 413 **ARLINGTON, MASS.** Report of the Committee on Water Supply; also the Engineer's and Chemist's reports. Arlington, 1871. 32 pp., 9 x 6, pap.
- 981 **ASTORIA, ORE.** Drawings of the pipe-line, reservoirs and various portions of the water-works of Astoria. Adams & Gemmell. no place, no date. 9 sheets, various sizes, pap.
- 787 — Specifications, forms of proposal and articles of agreement for the Astoria Water-Works. Astoria, 1895. 30 pp., 14 x 9, pap.
- 6 **ATLANTA, GA.** Annual report of the Board of Water Commissioners; together with the reports of the Superintendent and Secretary; 2d-3d; 1876-77. Atlanta, 1877-78. 2 v., 8 x 5, pap.
- 5 — Charter, by-laws, rules, regulations and water-rates governing the Atlanta Water-Works. Atlanta, 1875. 23 pp., 9 x 6, pap.

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- 334 **ATLANTIC CITY, N. J.** Annual report of the Board of Water Commissioners to the City Council; 1st-4th; 1896-99. Atlantic City, 1896-1900. 4 v., il., pl., 9 x 6, pap.
- 534 **ATLANTIC HIGHLANDS, N. J.** High and low-service stand-pipe at Atlantic Highlands, N. J.; designed by C. P. Bassett; with a short description of the water supply system. C. P. Bassett and A. P. Folwell. New London, 1893. pp. 215-219, pl., map, 9 x 6, pap.
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- 469 —Report to the Special Committee on Water-Works for the City of Augusta, Ga. A. W. Craven. 24 pp., 9 x 6, b. p. no title-page.
- 828 **AURORA, ILL.** Specifications for the construction of water-works. Aurora, 1885. 44 pp., 9 x 6, pap.
- 820 **AUSTIN, TEX.** Contract for head gates, head racks, penstocks, valves, turbines and pumps for the City of Austin, Tex. no place, 1892. 36 pp., 14 x 8, pap.
- 780 —Contract for masonries, of the abutment, head gate and return walls, adjoining the dam and power house of the City of Austin. Austin, 1892. 30 pp., 14 x 8, pap.
- 578 —Report on the public water supply and electric lighting of the City of Austin. J. T. Fanning. Austin, 1892. 12 pp., pl., 9 x 6, pap.
- 9 **BALTIMORE, MD.** Annual report of the Water Department to the Mayor and City Council; 1859, '61, '64-65, '67-70, '72-74, '76-77, '79-80, '82-85. Balt., 1860-86. 19 v., 9 x 6, pap.
- 844 —Contract and specifications, with advertisement, proposal and bond, for stand-pipe tower and foundations, to be located at the intersection of Granada and Ridgewood Aves., West Arlington, Baltimore, Md. no place, 1897. 16 pp., 14 x 8, pap.
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- 274 —Report of the Commissioners, appointed by authority of the Mayor and City Council, to examine the sources from which a supply of pure water may be obtained for the City of Baltimore. Balt., 1854. 217 pp., 9 x 6, pap.
- 275 —Report on condition of Druid Lake Reservoir by the Consulting Engineers to the Water Board of Baltimore. I. R. Trimble, C. P. Manning and J. H. Tegmeyer. Balt., 1868. 26 pp., pl., 9 x 6, pap.
- 198 —Report to John Lee Chapman, Mayor of Baltimore, by the Joint Select Committee on the Great Gunpowder. no place, 1867. 21 + 5 pp., map, 13 x 8, bds.
- 422 **BANGOR, ME.** Annual report of the Water Board; 1877-81. Bangor, 1878-82. 5 v., 9 x 6, pap.
- 421 —History of the Bangor Water-Works from the commencement, while under the charge of the first Board of Commissioners; by the Board of Commissioners of Water-Works. Bangor, 1877. 64 pp., 9 x 6, pap.
- 783 **BARNESVILLE, GA.** Specifications for water-works for Barnesville. no place, 1893. unpagcd, 11 x 8, pap. no title-page.
- 10 **BAY CITY, MICH.** Report of the Superintendent of the Water-Works to the Board of Water Commissioners; 4th-11th, 13-15th; 1875-82, '84-86. Bay City, 1876-87. 11 v., 9 x 6, pap.
- 11 **BELLAIRE, OHIO.** By-laws, and rules and regulations for the management and protection of the Bellaire Water-Works, adopted Apr. 19th, 1878. Wheeling, 1878. 28 pp., 9 x 6, pap.
- 989 **BERLIN, GERMANY.** Berliner Wasserwerke; separat Abdruck aus der Sammlung von Zeichnungen für die Hütte. "Hütte" Verein. Ber., 1860. pl., 26 x 21, pap.
- 535 —Natural filtration at Berlin. W. R. Nichols. 8 pp., 9 x 6, pap. no title-page.
- 584 —Die Wasserversorgung Berlins und die neuen Wasserwerke in ihrer Bedeutung für die Häuslichkeit und das Familienwohl. Ber., 1857. 110 pp., il., 2 pl., 7 x 4, b. p.
- 788 **BERRYVILLE, VA.** Contract and specifications for water-works. no place, 1891. 5 pp., 11 x 8, pap. no title-page.
- 220 **BERTHIER, QUE.** Reglements; Nos. 4 et 5, pour autoriser Joseph Ulric Foucher et Joseph Onésime Page, de la Ville et du District de Joliette, et y faisant affaires sous la raison sociale de "J. U. Foucher & Cie.," à construire un aqueduc en fer pour l'approvisionnement d'eau de la Ville de Berthier, et pour déterminer les conditions auxquelles tel privilège leur sera ainsi accordé. Berthier, no date. 18 pp., 8 x 5, pap. no title-page.
- 856 **BETHANY, MO.** Specifications for a system of water-works for Bethany, Mo. Bethany, 1894. 32 pp., 6 x 4, pap.



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- 12 **BINGHAMTON, N. Y.** Annual report of the Board of Water Commissioners to the Common Council; 1876-79, '85. Binghamton, 1877-86. 5 v., 9 x 6, pap.
- 742 —Contract and specifications for furnishing materials, laying water pipes, constructing gate-wells and intake crib for Binghamton Water-Works. no place, 1897. 9 pp., 14 x 8, pap. no title-page.
- BLOOMINGTON, ILL.** Annual reports of the Water Board. (See Ob30-2.1.)
- BOMBAY, INDIA.** Water-works of Indian cities. L. D'A. Jackson. 1875. (See Da-19, Pt. 2, p. 97.)
- 734 **BOONEVILLE, N. Y.** Contract, specifications and proposal for the Booneville Water-Works. no place, 1897. 46 pp., 10 x 7, pap.
- BOSTON, MASS.** Act for supplying the City of Boston with pure water; passed 1845. (See Dc-507, p. 132.)
- Acts relating to the water supply of Boston, from 1845 to '75. 1876. (See Dc-493, p. 193.)
- 489 —Annual report of the Cochituate Water Board; 1850-56, '62-76. Bost., 1850-76 20 v. in 7, 9 x 6,  $\frac{3}{4}$  ro., cl.
- 495 —Same; 1851-61. 10 v., 9 x 6, b. p.
- Annual report of the Engineering Department. (See Ob35-3.1.)
- 490 —Annual report of the Water Board; 1st-19th; 1877-94. Bost., 1877-95. 19 v., 9 x 6, pap.
- 491 —Annual report of the Water Commissioners; 1st; 1895. Bost., 1896. 1 v., 9 x 6, cl.
- 197 —Boston Water-Works; additional supply from Sudbury River; description of the work. Alphonse Fteley. Bost., 1882. 144 + 1 pp., pl., maps, 15 x 11, cl.
- 990 —Boston Water-Works. Sudbury River Conduit. no place, 1876. 49 pl., 14 x 20, 14 x 29, pap. no title-page.
- 432 —Celebration of the City Council on the introduction of the water of Cochituate Lake into the City of Boston, Oct. 25th, 1848. Bost., 1848. 48 pp., 9 x 6, b. p.
- 498 —Cochituate and Sudbury water supply; its present and future development. no place, 1888. 13 pp., map, 9 x 6, pap.
- 504 —Communication of the Cochituate Water Board, in regard to the high-service district; and a report from the City Engineer on the same subject. (City doc. No. 38.) Bost., 1873. 9 pp., 9 x 6, pap. no title-page.
- 495 —Communication of the Cochituate Water Board, on the route of the new water main. Bost., 1859. 7 pp., 9 x 6, b. p.
- 937 —Contract and specifications for building a dam at Lake Cochituate. Bost., 1889. 26 pp., 11 x 8, pap.
- 754 —Contract and specifications for building the Fisher Hill Reservoir. no place, 1885. 39 pp., 10 x 8, pap.
- 943 —Contract and specifications for excavation, for stripping and shallow flowage in Basins 5 and 6. Bost., 1891. 2 v., 10 x 8, pap.
- 760 —Contract and specifications for furnishing cast-iron water-pipes and special castings. no place, 1889-9-. 3 v., 10 x 7, pap.
- 940 —Contract and specifications for furnishing cement for Dam No. 5. no place, 1890. 9 pp., 10 x 8, pap.
- 933 —Contract and specifications for furnishing cut granite at Dam No. 5. no place, 1891. 11 pp., 10 x 8, pap.
- 925 —Contract and specifications for laying paving and rip-rap on Dam No. 6. Bost., 1893. 19 pp., 10 x 8, pap.
- 930 —Contract and specifications for laying six-inch water-pipe to Thompson's Island for the City of Boston. no place, 1892. 15 pp., 10 x 8, pap.
- 998 —Contract and specifications for three steam boilers for Mystic Pumping Station. no place, 1890. 20 pp., 10 x 8, pap.
- 936 —Contract and specifications for two siphons for water-pipes at Warren Bridge. Bost., 1889. 15 pp., 10 x 8, pap.
- 934 —Contract and specifications for water pipe at Warren Bridge (north and south side.) Bost., 1889. 2 v., 10 x 8, pap.
- 926 —Dam No. 5, Southborough: Specifications and contract. Bost., 1893. 47 pp., 10 x 8, pap.
- 536 —Description of the Boston Water-Works. *Engineering News*. Chic., 1878. 62 pp., 5 pl., 9 x 6, cl.
- 432 —Engineers' report, in relation to taking water to East Boston. E. S. Chesbrough and W. S. Whitwell. (City doc. No. 41.) Bost., 1849. 8 pp., 9 x 6, b. p.
- 941 —For delivering filling on Dam 5: Specifications and contract. Bost., 1890. 18 pp., 10 x 8, pap.
- 929 —Foundations for high-service Pumping Engine No. 3, at Chestnut Hill Pumping Station: Specifications and contract. Bost., 1892. 18 pp., 10 x 8, pap.

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- 493 —History of the Boston Water-Works from 1868 to 1876; being a supplement to a "History of the introduction of pure water into the City of Boston; with a description of its Cochituate Water-Works, etc., 1868." Bost., 1876. 290 pp., pl., maps, 10 x 7, cl.
- 492 —History of the introduction of pure water into the City of Boston: with a description of its Cochituate Water-Works. J. N. Bradlee. Bost., 1868. 21 + 1 + 299 pp., pl., maps, 10 x 7,  $\frac{3}{4}$  mor.
- 495 —Inquiry into the best mode of supplying the City of Boston with water for domestic purposes; in reply to the pamphlets of Mr. Wilkins and Mr. Shattuck, and also to some of the representations to the Committee of the Legislature on the hearing of the petition of the City; by a member of the late Board of Water Commissioners. Bost., 1845. 70 pp., 9 x 6, b. p.
- 942 —Lower section of waste way: Contract and specifications, Apr., 1891. Bost., 1891. 21 pp., 10 x 8, pap.
- 17 —Majority report of the Committee on Water, on union of Mystic and Cochituate Water Boards. (City doc. No. 53.) no place, 1874. 9 pp., 9 x 6, pap.
- 834 —Map showing the several systems of supply already constructed; also the drainage areas of Lake Cochituate and the Charles, Sudbury, Shawshine and Mystic Rivers, May, 1878, no place, no date. sheet, 47 x 31, pap.
- 570 —Method used to determine the best capacity to give to Basin No. 5, Boston Water-Works. Desmond Fitzgerald. no place, 1891. 3 pp., 9 x 6, pap.
- 432 —Monthly report of the Water Commissioners; 1st; May, 1846. (City doc No. 20.) Bost., 1846-. 1 v., 9 x 6, b. p.
- 13 —Mystic water rates. unpagcd, 6 x 3, pap. no title-page.
- 16 —On the Boston water supply. W. R. Nichols. no place, 1880. 11 pp., 9 x 6, pap. no title-page.
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- 432 —Order reported by the Committee on Water authorizing the Water Commissioners to purchase and pay for lands and water rights in the name of the City of Boston. (City doc. No. 43.) Bost., 1847. 2 pp., 9 x 6, b. p.
- 494 —Papers relating to the introduction of pure water. (City doc. No. 9.) Bost., 1838. various pagings, 9 x 6, b. p.
- 207 —Petitions for damages for the diversion of Sudbury River by the City of Boston; being the petitions, testimony and arguments of Counsel presented before the Commissioners under the Act of Legislature for supplying the City of Boston with pure water. W. G. Russell, J. B. Francis and C. A. Stevens. Bost., 1876. 14 + 1161 + 18 pp., 9 x 6, bds.
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- 756 —Proposals for building Sections 4-5, 7-8, 11-12, 14, 16-17 of the Sudbury River Conduit. no place, 1875. 9 v., 10 x 7, pap.
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- 19 —Remarks on some algæ found in the water supplies of the City of Boston. W. G. Farlow. no place, 1877. pp. 75-80, 9 x 6, pap.
- 495 —Report of the Boston Cochituate Water Board, on the subject of a new main pipe from Brookline to Boston. Bost., 1857. 20 pp., 9 x 6, b. p.
- 499 —Report of the Cochituate Water Board, in reply to an order of the City Council, passed Oct. 31st, 1873, relating to the available quantity and purity of the Mystic water, and to other matters connected with an additional supply for Boston. Bost., 1874. 20 + 100 pp., 9 x 6, b. p.
- 503 —Report of the Cochituate Water Board, on an additional supply of water, with the reports of the Chief and Consulting Engineers appointed to investigate the subject. (City doc. No. 29.) Bost., 1873. 6 + 80 pp., pl., 9 x 6, pap.
- 489 —Report of the Cochituate Water Board, on proposed amendment of water rates. Bost., 1865. 9 pp., 9 x 6, b. p.
- 495 —Report of the Cochituate Water Board, on the laying of the new main pipe. Bost., 1860. 7 pp., 9 x 6, b. p.
- 432 —Report of the Commissioners appointed by the City Council, Aug. 26th, 1844, to report the best mode and expense of bringing the water of Long Pond into the City of Boston. (City doc. No. 24.) Bost., 1844. 32 pp., 8 x 5, b. p.
- 444 —Report of the Commissioners appointed to examine the sources from which a supply of pure water may be obtained for the City of Boston. J. B. Jervis and W. R. Johnson. Bost., 1845. 128 + 32 pp., il., maps, 9 x 6, b. p.
- 497 —Report of the Commissioners on the Investigation of Water Supply. (City doc. No. 129.) Bost., 1883. 7 + 186 pp., 9 x 6, pap. no title-page.

## Dc—(Continued).

- Report of the Committee on the Introduction of Water. (City doc. No. 33.) Bost., 1838. 35 pp., 9 x 6, b. p. no title-page. Cc-148, p. 179.
- 21 —Report of the Joint Standing Committee on Water, in reply to various orders of the City Council pertaining to additional supply of water; with report of City Engineer. (City doc. No. 38.) Bost., 1874. 20 + 170 pp., map, 9 x 6, pap.
- 432 —Report of the Joint Standing Committee on Water, on a plan of organization for the Water Department. (City doc. No. 57.) Bost., 1849. 12 pp., 9 x 6, b. p.
- 501 —Report of the Joint Standing Committee on Water, on the impurity of the water supply, with report of Ira Remsen on the subject. Bost., 1881. 23 pp., pl., 9 x 6, pap. no title-page.
- Report of the Joint Standing Committee on Water, on the introduction of a supply of soft water into the City of Boston. (City doc. No. 19.) Bost., 1839. 20 pp., 9 x 6, b. p. no title-page. Cc-148, p. 231.
- 432 —Report of the Joint Standing Committee on Water, on the petition of S. W. Hall, that the water from Lake Cochituate may be carried to East Boston. (City doc. No. 22.) Bost., 1848. 14 pp., 9 x 6, b. p.
- 444 —Report of the Joint Standing Committee on Water, on the petition of Silas P. Barnes and others. (City doc. No. 8.) Bost., 1847. 36 pp., 9 x 6, b. p.
- 502 —Report of the Joint Standing Committee on Water, on waste of water. (City doc. No. 78.) Bost., 1882. 14 pp., 2 pl., 9 x 6, pap. no title-page.
- 496 —Report of the Joint Standing Committee on Water; together with report of the City Engineer, in reply to orders of the City Council pertaining to an increased supply of water from the Cochituate and Mystic Lakes combined, and an additional supply from Charles River. Bost., 1874. 134 pp., pl., map, 9 x 6, pap.
- 20 —Report of the Medical Commission of Boston, upon the sanitary qualities of the Sudbury, Mystic, Shawshine, and Charles River waters. Bost., 1874. 108 pp., 11 pl., 9 x 6, pap.
- 228 —Report of the State Board of Health, upon a Metropolitan water supply. Bost., 1895. 37 + 233 pp., maps, 9 x 6, cl.
- 432 —Report of the Water Commissioners; Aug., 1849, Jan., 1850. (City docs. Nos. 38, 3.) Bost., 1849-50. 2 v., 9 x 6, b. p.
- 432 —Report of the Water Commissioners, in relation to fountains. (City doc. No. 53.) Bost., 1849. 7 pp., 9 x 6, b. p.
- 223 —Report of the Water Commissioners, on the material best adapted for distribution water pipes; and on the most economical mode of introducing water into private houses. Bost., 1848. 67 pp., 9 x 6, b. p.
- 432 —Report of the Water Commissioners, respecting the progress of the Water-Works. (City doc. No. 4.) Bost., 1849. 9 pp., 9 x 6, b. p.
- 432 —Report of the Water Commissioners; with a statement of the number of hydrants in the City. (City doc. No. 5.) Bost., 1849. 4 pp., 9 x 6, b. p.
- 208 —Report of the Water Meter Testing Commission. Bost., 1888. 45 pp., 12 pl., 123 tab., pap.
- 500 —Report of Water Board, on supply of Cochituate water for East Boston. Bost., 1879. 6 pp., map, 9 x 6, pap. no title-page.
- 14 —Report on a peculiar condition of the water supplied to the City of Boston, 1875-76. W. R. Nichols, W. G. Farlow and E. Burgess. Bost., 1876. 14 pp., 9 x 6, pap.
- 18 —Report on the Boston water supply. W. R. Nichols. no place, 1879. 6 pp., 9 x 6, pap. no title-page.
- 633 —Report on the capacity of the Sudbury River and Lake Cochituate water-sheds in time of drought. Desmond FitzGerald. Bost., 1887. 61 pp., 5 pl., map, pap.
- Report on the subject of introducing pure water into the City of Boston. Loammi Baldwin. Bost., 1834. 76 pp., map, 9 x 6, b. p. Cfb-9, p. 337.
- Same. ed. 2, enl. Bost., 1835. 143 pp., maps, 9 x 6, b. p. Cfb-5, p. 511.
- 15 —Reports on matters connected with the Boston water supply. W. R. Nichols and W. G. Farlow. Bost., 1877. 7 pp., 9 x 6, pap.
- 489 —Rules and regulations of the Cochituate Water Board, adopted Apr., 1865. Bost., 1865. 11 pp., 9 x 6, b. p.
- 432 —Schedule of rates of charges by the Water Commissioners, for the use of water from the Boston Water-Works. (City doc. No. 3.) Bost., 1849. 4 pp., 9 x 6, b. p.
- 432 —Semi-annual report of the Boston Water Commissioners to the City Council; Dec. 2d, 1847. (City doc. No. 44.) Bost., 1847. 1 v., 9 x 6, b. p.
- 506 —Short description of the Boston Water-Works; by Desmond FitzGerald, Resident Engineer. Bost., 1395. 42 + 2 pp., pl., map, 9 x 6, cl.
- 531 —Some remarks on the tastes and odors of surface waters. W. R. Nichols. Bost., 1882. pp. 97-112, 9 x 6, pap.
- 927 —Specifications and contract for a Belpaire fire-box boiler. no place, 1893. 24 pp., 10 x 8, pap.



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- 694 — Specifications and contract for high-service Pumping Engine, No. 3. no place, 1892. 53 pp., il., 10 x 8, pap.
- 695 — Specifications and contract for Mystic Station Pumping Engine, No. 4. Bost., 1893. 86 pp., 10 x 8, pap.
- 1019 — Specifications for masonry work, gate-house, bulkhead, etc., for the Boston Water-Works. no place, 1847. various pagings, 11 x 8, b. p. no title-page.
- Statutes relating to the introduction of water into the city. 1870. (See Dc-489, Annual report, 1870, p. 97.)
- 931 — Steel forgings for high-service Pumping Engine No. 3: Specifications and contract, Apr., 1892. Bost., 1892. 10 pp., 10 x 8, pap.
- 924 — Steel forgings for Mystic Station Pumping Engine No. 4: Specifications and contract, 1893. Bost., 1893. 10 pp., 10 x 8, pap.
- 928 — Stripping, shallow flowage, and two roads: Contract and specifications, Aug., 1894. Bost., 1894. 27 pp., 10 x 8, pap.
- 992 — Upper section of waste-way: Specifications and contract, Mar., 1892. Bost., 1892. 26 pp., 10 x 8, pap.
- 432 — Water report of the Joint Standing Committee on Water. (City doc. No. 27.) Bost., 1847. 4 pp., 9 x 6, b. p.
- 749 **BOUND BROOK, N. J.** Specifications for masonry dams, Nos. 1 and 2, for Bound Brook Water-Works. no place, 1888. 8 pp., 12 x 8, pap. no title-page.
- 215 **BRADFIELD, ENG.** Report on the failure and bursting of a reservoir embankment belonging to the Sheffield Water-Works Co., on the night of Friday, 11th Mar., 1864. Robert Rawlinson and Nathaniel Beardmore. no place, 1864. 76 pp., pl., maps, 13 x 8, pap.
- 589 **BRADFORD, ENG.** Copy of all correspondence to or from the Home Office, and reports relating to the unsafe state of the Bradford Water-Works Reservoirs, since the 1st day of December last. no place, 1866. 9 pp., 13 x 9, b. p.
- 589 — Copy of further correspondence relating to the Bradford Water-Works Reservoirs, in continuation of papers already presented. no place, 1866. 11 pp., 13 x 9, b. p.
- 216 — Reports made to the Secretary of State for the Home Department, on the condition of the reservoirs belonging to the Corporations of the Boroughs of Sheffield and Bradford, in the County of York. no place, 1864. 1 v., pl., map, 13 x 8, pap.
- 859 **BRADFORD, PA.** Specifications of the manner of constructing dam and masonry for reservoir on Gilbert Brook. no place, 1887. 6 pp., 8 x 5, pap. no title-page.
- BRIDGEPORT, CONN.** Annual reports relating to the water supply of the city. (See Ob40-2.1.)
- 22 — Report of the Superintendent of the Bridgeport Hydraulic Co., to the Directors and Stockholders; 1876-78. Bridgeport, 1876-78. 3 v., 7 x 5, pap.
- 23 — Rules and regulations of the Bridgeport Hydraulic Co. Bridgeport, 1874. unpagged, 8 x 5, pap.
- 28 **BRIDGETON, N. J.** Annual report of the Water Committee, accompanied by the report of the Superintendent and City Treasurer; 1st-5th; 1878-82. Bridgeton, 1879-83. 5 v., 8 x 5, pap.
- 326 — Graphic history of introduction of water in Bridgeton. *Bridgeton Daily*. no place, 1877. 16 pp., 6 x 4, pap.
- 992 **BRISBANE, QUEENSLAND.** Plans prepared for the Gold Creek Reservoir, Contracts 4 and 5. Brisbane, 1883. pl., 27 x 40, pap. no title-page.
- 397 **BROOKLINE, MASS.** Annual report of the Water Board; 1st-3d, 9th; 1876-78, '84. Brookline, 1876-85. 4 v., 9 x 6, pap.
- 187 — Final report of the Water Commissioners. Bost., 1875. 118 pp., 9 x 6, b. p.
- 388 — Report of the Committee appointed by the Town of Brookline to examine the sources of water supply, Sept., 1873. Bost., 1873. 52 pp., map, 9 x 6, pap.
- 393 — Report of the Committee on Water Supply; with letters bearing upon the subject from engineers and contractors. Brookline, 1879. 42 pp., 9 x 6, pap.
- 394 — Supplementary report of the Committee on Water Supply; with letter of George S. Greene. Brookline, 1879. 7 pp., 9 x 6, pap.
- 395 — Supplementary report of the Water Board, Apr., 1878. Brookline, 1878. unpagged, 9 x 6, pap.
- 450 **BROOKLYN, N. Y.** Act to provide for the supply of the City of Brooklyn with water, passed Feb. 11th, 1857; with Acts of the Water Commissioners relating thereto. no place, 1857. 13 pp., 8 x 5, b. p.
- 450 — Act to provide for the supply of the City of Brooklyn with water, passed Apr. 16th, 1859. no place, 1859. 14 pp., 8 x 5, b. p.
- Act to supply the City of Brooklyn with water, passed June 3d, 1853; with the amendments passed Apr. 7th, 1854. 1854. (See Dc-626, p. 107.)
- 801 — Additional pipe conduit: Specification. no place, 1896. 182 pp., 11 x 8, pap.

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- 450 —Address of the Board of Water Commissioners to the citizens of Brooklyn; with a statement by the Chief Engineer. Note: Reply to the report of the Investigating Committee of the Common Council, of Mar. 7th, 1859. N. Y., 1859. 33 pp., 8 x 5, b. p.
- 960 —Analytical investigations made to determine the causes affecting the quality of the water supply during the summer of 1896. Brooklyn, 1897. 12 + 135 pp., il., 1 + 6 pl., 9 x 6, pap.
- 445 —Annual report of the Nassau Water Department to the Common Council; 4th, 7th-12th; 1863, '66-71. Brooklyn, 1864-72. 8 v. in 2, 9 x 6, ¾ ro.
- 449 —Same; 3d, 5th-6th; 1862, '64-65. 3 v., 8 x 5, b. p.
- Annual reports of the Department of Public Works. (See Ob45-2.1.)
- 606 —Brooklyn Water-Works. A. S. Smith. no place, 1898. 136 pp., 7 pl., 9 x 6, pap.
- 196 —Brooklyn Water-Works and Sewers: A descriptive memoir. N. Y., 1867. 26 + 160 pp., 58 pl., map, 15 x 12, cl.
- 986 —Brooklyn Water-Works: Diagram explanatory of the distribution. N. Y., 1859. sheet, 31 x 45, pap.
- 450 —By-laws, rules and regulations of the Board of Water Commissioners; adopted Aug. 27th, 1857. Brooklyn, 1857. 7 pp., 8 x 5, b. p.
- 691 —Canvass of proposals for the construction of the storage reservoir in Hempstead Valley, and specifications and contract of Kingsley & Keeney, for construction of the same in 1872. Brooklyn, 1872. 104 pp., 10 x 7, pap.
- 446 —Charter of the Nassau Water Co., incorporated Apr. 12th, 1855, for the purpose of supplying the consolidated City of Brooklyn with pure and wholesome water. Brooklyn, 1859. 14 pp., 8 x 5, b. p.
- 449 —Communication from the Engineer to the Board of Water Commissioners, on the present position of the canal grade, accompanying comparative estimates of canal and conduit between Baisley's Pond and Hempstead Creek. no place, 1857. 8 pp., pl., 8 x 5, b. p.
- 450 —Communication of the Board of Water Commissioners to the Common Council, proposing to change the plan of the water-works by substituting a closed conduit for the open canal. Brooklyn, 1858. 19 pp., 8 x 5, b. p.
- 450 —Communication of the Board of Water Commissioners to the Mayor and Common Council, 28th Aug., 1857. Note: Relates to the work on the canal of the Brooklyn Water-Works from Baisley's Pond to Parsonage Creek. N. Y., 1857. 16 pp., pl., 8 x 5, b. p.
- 448 —Communication to the Board of Water Commissioners, relative to the second distributing main from Ridgewood Reservoir; by James P. Kirkwood, Chief Engineer. Brooklyn, 1862. 12 pp., 8 x 5, b. p.
- 450 —Communications of the Board of Water Commissioners to the Common Council. Note: Report on the change, near Jamaica Pond, from a canal to a conduit. Brooklyn, 1858. 8 pp., 8 x 5, b. p.
- 626 —Documents and plans of the Water Committee, submitted to the Common Council of the City of Brooklyn, 1854. Brooklyn, 1854. 145 pp., il., 27 pl., 12 x 9, cl.
- 802 —Extension of the aqueduct east of Rockville Centre: Notice to the contractors, and form of proposal and contract, Sections 1-4, 6-8. no place, 1889. 7 v., 11 x 8, pap.
- 625 —History and description of the water supply of the City of Brooklyn, by the Department of City Works. no place, 1896. 24 + 306 pp., il., por., 45 pl., 81 tab., 14 x 12, cl.
- 342 —In the City Court of Brooklyn; William C. Kingsley and Abner C. Keeney against the City of Brooklyn: Report of the Referees, and their opinion. J. A. Lott, T. H. Rodman and G. H. Fisher. Note: Case relating to the construction of the Hempstead Reservoir. Brooklyn, 1877. 60 pp., 10 x 7, pap.
- Laws and acts relating to the water supply of the City of Brooklyn. I. M. de Varona. 1896. (See Dc-625, p. 249.)
- 27 —Majority and Minority reports of the Water Committee, on the communication of the Water Commissioners proposing to substitute a conduit in lieu of a canal; with the action of the Common Council thereon. Brooklyn, 1858. 19 pp., 9 x 6, pap.
- 320 —Minority report of the Commission on the Long Island Water Supply Co., relating especially to the valuation of the franchise of the Company, and the establishment of its water rates. C. E. Emery and Edward Rowe. Brooklyn, 1893. 14 pp., 9 x 6, pap. no title-page.
- 450 —Preliminary report of the Investigating Committee of the Common Council, on the management of the Brooklyn Water-Works, Mar. 7th, 1859. Brooklyn, 1859. 64 pp., 8 x 5, b. p.
- 450 —Remarks on the investigation of the Water Commissioners of the Brooklyn Water-Works, Jan. 2d, 1858. J. A. Dayton. Brooklyn, 1859. 78 pp., 8 x 5, b. p.

## Dc—(Continued).

- 317 —Report in reference to the storage reservoir on Parsonage Creek; made to the Joint Committee on Law, Water and Drainage of the City of Brooklyn. W. B. Burnett. N. Y., 1875. 12 pp., 11 x 7, pap. no title-page.
- 450 —Report made by an Examining Board of Hydraulic Engineers to the Water Commissioners, upon the present state of the Brooklyn Water-Works, Dec., 1858. J. B. Jervis, Frederic Graff and J. T. Clark. Brooklyn, 1858. 31 pp., 8 x 5, b. p.
- 446 —Report made to the Water Committee of the Common Council of the City of Brooklyn, Mar. 1854, on a proposed plan for the introduction of water. W. B. Burnett. Brooklyn, 1854. 58 pp., 8 x 5, b. p.
- 430 —Report made to the Water Committee of the Common Council of the City of Brooklyn, on supplying the city with water. W. J. McAlpine. Brooklyn, 1852. 139 + 1 pp., 9 x 6, b. p.
- 446 —Report of John S. Stoddard, City Surveyor, on the subject of supplying Brooklyn with water by the well system. Brooklyn, 1854. 16 pp., 8 x 5, b. p.
- 450 —Report of the Chief Engineer, in relation to proposals made by various parties to protect the cast-iron pipes from corrosion. N. Y., 1858. 62 pp., 8 x 5, b. p.
- 450 —Report of the Chief Engineer of the Board of Water Commissioners, on the gaugings of the several sources of water supply for the Brooklyn Water-Works. Brooklyn, 1858. 28 pp., 8 x 5, b. p.
- 450 —Report of the Chief Engineer, on the position of the Prospect Hill Engine House; with notes of certain experiments made on the water deliveries of portions of the Croton and Jersey City pipe mains. N. Y., 1858. 32 pp., pl., tab., 8 x 5, b. p.
- 891 —Report of the Commissioner of City Works, commenting upon the reports of A. W. Craven and Augustus Kurth upon the water supply of the City of Brooklyn. Brooklyn, 1873. newspaper slips.
- Report of the Common Council, submitting the correspondence with the Long Island Water-Works Co. 1854. (See Dc-626, p. 75.)
- 444 —Report of the Special Committee of the Common Council, on supplying the City with water; made Jan. 8th, 1849. (City doc. No. 11.) Brooklyn, 1849. 8 pp., 9 x 6, b. p.
- 434 —Report of the Standing Committee on Water; and communications of W. J. McAlpine and J. B. Jervis on the subject of water for the City of Brooklyn. Brooklyn, 1851. 24 pp., 8 x 5, b. p.
- 450 —Report of the Water Committee made to the Common Council, Mar. 13th, 1854; with report of Ward B. Burnett, on introduction of a supply of water. Brooklyn, 1854. 58 pp., 8 x 5, b. p.
- 450 —Report of the Water Committee of the Common Council of the City of Brooklyn; and accompanying documents, presented May 5th, 1856. Note: Report relating to the proposed subscription of the City to the stock of the Nassau Water Co. Brooklyn, 1856. 47 + 1 pp., 8 x 5, b. p.
- 446 —Report of the Water Committee, on the memorial of the Nassau Water Co.; submitted to the Common Council, Sept. 24th, 1855. Brooklyn, 1855. 8 pp., 8 x 5, b. p.
- 448 —Report on the extent and character of the district supplying water to the City of Brooklyn; with a communication in relation to the same from James P. Kirkwood, Engineer of the Works; and an analysis of the water of the Jamaica Reservoir, by A. K. Eaton, Chemist. Theodore Weston. Brooklyn, 1861. 66 pp., pl., 8 x 5, b. p.
- Report on the final location of the conduit and canal line, Brooklyn Water-Works. 1854. (See Dc-626, p. 65.)
- 199 —Report on the future extension of water supply for the City of Brooklyn, by the Department of City Works. no place, 1896. 75 pp., pl., maps, 15 x 12, cl.
- 544 —Report on the proposed extension of the water-works, east of Rockville Centre. Brooklyn, 1885. 42 pp., pl., maps, tab., 9 x 6, pap.
- 447 —Reports by mechanical engineers, on trials of duty made in 1857 and 1859, upon the Brooklyn, Hartford and Cambridge Pumping Engines. N. Y., 1860. 83 + 1 pp., 5 pl., 2 tab., 8 x 5, b. p.
- 892 —Reports made to the Commissioner of City Works, upon the water-supply of Brooklyn. A. W. Craven and Augustus Kurth. Brooklyn, 1873. newspaper slips.
- 447 —Reports on trial of duty and capacity of the pumping engines, No. 2, at Ridge-wood, and No. 1, at Prospect Hill; made in 1861-62. N. Y., 1862. 47 pp., il., 8 x 5, b. p.
- 206 —Reports relating to the Chicago and Brooklyn Water-Works. W. J. McAlpine. no place, 1852. 635 pp., 14 x 9, ¾ sh. no title-page. manuscript.
- 450 —Rules and regulations, adopted by the Board of Water Commissioners, in relation to water. no place, 1857. 9 pp., 8 x 5, b. p.
- Rules and regulations in relation to water and sewers. 1896. (See Dc-625, p. 278.)



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- 437 — Sanitary qualities of the water supply of New York and Brooklyn; with chemical analysis, by C. F. Chandler. Elisha Harris. N. Y., 1868. 16 pp., 9 x 6, b. p.
- 449 — Semi-annual report of the Nassau Water Department, made to the Common Council; Aug., 1860, Mar., '61. Brooklyn, 1860-61. 2 v., 8 x 5, b. p.
- 755 — Specification, notice to contractors, form of proposal and contract, for engine, foundations, etc., boiler-house, boilers, etc., at the Ridgewood Pumping Station. Brooklyn, 1895. 104 pp., 11 x 8, pap.
- 1007 — Specifications, etc., governing the laying, by contract, of cast-iron pipes in Brooklyn and its vicinity. no place, no date. 4 pp., 14 x 8, pap.
- 1019 — Specifications for cast-iron pipe, conduit, Ridgewood Reservoir, etc., for the Brooklyn Water Works. Nassau Water Co. Brooklyn, 1856. various pagings, 13 x 8, b. p. no title-page.
- Specifications for the construction of water-works for the City of Brooklyn. 1856. (See Dc-450, p. 233.)
- 449 — Statement of the Board of Water Commissioners, of water pipes laid during the seasons of 1857, 1858, and 1859; together with a report by John H. Rhodes, on the manufacture of cast-iron pipes. N. Y., 1860. 53 pp., 8 x 5, b. p.
- 316 — Statement of the views and position of the Board of City Works, in relation to the completion of the new storage reservoir in Hempstead Valley. no place, 1875. 47 pp., 9 x 6, pap. no title-page.
- 446 — Supply of water for the City of Brooklyn: Petition of the Nassau Water Co. to the Common Council of the City of Brooklyn, June 4th, 1855. Brooklyn, 1855. 13 pp., 8 x 5, b. p.
- 446 — Treatise relating to the origin, history, and present position (position with reference to Acts passed by the Legislature) of the Williamsburg Water-Works Co. W. C. Betts. no place, 1855. 16 pp., 8 x 5, b. p.
- 429 — The water question: Report of debate by the Common Council, on Friday evening, Jan. 21st, 1853. no place, 1853. 11 pp., 9 x 6, b. p.
- 323 **BUFFALO, N. Y.** Annual report of the Water Commissioners; 2d, 4th-22d; 1870. '72-90. Buffalo, 1871-91. 20 v., 9 x 6, pap.
- 187 — Same; 1st; 1869. 1 v., 9 x 6, b. p.
- Annual reports of the Bureau of Water-Works. (See Ob50-6.1.)
- 638 — General specifications for additional pumping machinery for the City of Buffalo, N. Y.; together with specifications of the mode of testing the same, and of estimating its capacity and duty, Sept. 27th, 1883. 13 pp., 9 x 6, pap.
- 823 — Specifications for the construction of the new reservoir for the Buffalo City Water-Works. Buffalo, 1889. 59 pp., 9 x 6, pap.
- 25 **BURLINGTON, IA.** Report of the Superintendent and Secretary of the Water Co.; 1st; 1878-79. Burlington, 1880. 1 v., 9 x 6, pap.
- 24 — Rules and rates of the Burlington Water Co. no place, 1878. unpagged, 6 x 3, pap.
- 748 **BURLINGTON, N. J.** Specifications of workmanship and material required for furnishing complete in place, at Burlington, N. J., of a stand-pipe, and to be completed by Nov. 25th, 1888, in accordance with plans drawn for that purpose. no place, 1888. 1 p., 10 x 7, pap. no title-page.
- 26 **BURLINGTON, VT.** Annual report of the Superintendent of Water-Works to the City Council; 1879. Burlington, 1880. 1 v., 9 x 6, pap.
- Annual report of the Superintendent of Water-Works to the City Council. (See Ob57-2.1.)
- 442 — Reply to the report of D. C. Linsley, Engineer of the Burlington City Water-Works, made to the City Council, Oct. 7th, 1866. W. J. McAlpine. no place, 1866. 15 pp., 9 x 6, b. p.
- 442 — Report of the Chief Engineer of Water-Works to the City Council, on a plan for the construction of the water-works. Burlington, 1866. 45 pp., 9 x 6, b. p.
- 442 — Report of the Committee on Water-Works; with the analysis of lake and river waters by Henry M. Seeley, and the report of W. J. McAlpine. Burlington, 1866. 46 pp., 9 x 6, b. p.
- 1012 — Water rates of the City of Burlington. Burlington, 1871-72. 2 v., 7 x 4, pap.
- 401 — Water supply of Burlington, Vt.: Report to George F. Edmunds. W. P. Judson. no place, 1884. 10 pp., map, 9 x 6, pap.
- BUTTE, MONT.** Short account of the water-works, by the City Engineer. 1890. (See Ob65-2.1, 1st annual report, p. 14.)
- CALCUTTA, INDIA.** Water-works of Indian cities. L. D'A. Jackson. 1875. (See Da-19, Pt. 2, p. 101.)
- CAMBRIDGE, MASS.** Act to incorporate the Cambridge Water-Works. 1857. (See Dc-461, p. 519.)
- 187 — Annual report of the Water Board to the City Council; together with the reports of the Registrar and Superintendent, and other documents; 6th, 10th; 1870, '74. Cambridge, 1871-75. 2 v., 9 x 6, b. p.

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- 435 —Same; 4th; 1868. 1 v., 9 x 5, b. p.
- 469 —Same; 5th; 1869. 1 v., 9 x 6, b. p.
- Annual reports of the City Engineer. (See Oc5-2.1.)
- Annual reports of the Water Board. (See Oc5-3.1.)
- 846 —Contract and specifications for dam and work at Roberts' Basin. no place, 1885. 33 pp., 10 x 8, pap.
- 585 —Petition of the Mayor of Cambridge, for annexation of a part of Belmont: Hearing before the Committee on Towns. Note: Annexation desired in order to protect the water supply of Cambridge from pollution. Bost., 1880. 343 pp., 9 x 6, pap.
- 348 —Report of a Special Committee of the Water Board, in relation to leakage and waste of water. Cambridge, 1876. 40 pp., 9 x 6, pap.
- 347 —Report of the City Engineer, in relation to leakage from water pipes. Cambridge, 1871. 15 pp., 9 x 6, pap.
- 463 —Report of the Directors of the Cambridge Water-Works to the Stockholders of the Company; 1856, '60. Cambridge, 1857-61. 2 v., 9 x 6, b. p.
- 346 —Report of the Special Committee on Water Supply. Cambridge, 1879. 61 pp., 6 pl., 9 x 6, pap.
- 264 **CAMDEN, N. J.** Report of the Chief Engineer of the Water Department; 1872. Camden, 1873. 1 v., 9 x 6, pap.
- 32 —Report of the Water Department; 1878, '80. Camden, 1879-81. 2 v., 9 x 6, pap.
- 177 **CANADA.** Catalogue of water-works reports and information in the United States and Canada. Edward Prince. Note: Partial catalogue of the library of Edward Prince, of Quincy, Ill. Quincy, 1879. 27 pp., 8 x 5, pap.
- 179 —Table of general information concerning the water-works of the United States and Canada. Holly Manufacturing Co., pub. Lockport, 1878. 16 pp., 9 x 6, pap.
- CANTON, OHIO.** Annual reports of the Board of Water-Works Trustees. (See Oc15-2.1.)
- 35 —Report of Trustees of the City Water-Works, and report of J. L. Pillsbury; together with report of C. Aultman, E. Ball and John Laird, and rules and regulations. Canton, 1870. 14 + 2 pp., 9 x 5, pap.
- 34 —Reports of the Committee on Accounts, of Trustees of City Water-Works, and also report of Trustees of City Water-Works, for 1869 and 1870. Canton, 1871. 8 pp., 9 x 6, pap.
- 36 **CARBONDALE, PA.** Charter, by-laws, regulations, etc., of the Crystal Lake Water Co. Carbondale, 1869. 13 pp., 9 x 6, pap.
- 30 **CEDAR RAPIDS, IA.** Treasurer's report of Cedar Rapids Water Co.; 1880. no place, 1880. 2 pp., 6 x 4, pap.
- 434 **CHARLESTON, S. C.** Report of the Engineers employed to make a survey of the best source for obtaining a supply of pure water for the City of Charleston. F. Erdman, H. D. Steever and Henry Cartwright. Charleston, 1853. 16 pp., pl., 9 x 6, b. p.
- 1015 —Report of the Scientific Committee appointed by the City Council, on 5th July, 1876, on artesian wells. Charleston, 1882. 61 pp., 9 x 6, pap.
- 37 **CHARLESTOWN, MASS.** Annual report of the Mystic Water Board to the City Council; 7th-11th; 1871-75. Charlestown, 1872-76. 5 v., 9 x 6, pap.
- 435 —Same; 1st-3d; 1865-67. 3 v., 9 x 5, b. p.
- 463 —Same; 2d-7th; 1866-71. 6 v., 9 x 6, b. p.
- 800 —Contract and specifications for brick conduit, Charlestown Water-Works. Bost., 1862. 46 pp., 10 x 8, b. p.
- 800 —Contract and specifications for clearing, grubbing and grading, at Mystic Pond, Charlestown Water-Works. no place, 1862. 15 pp., 10 x 8, b. p.
- 800 —Contract and specifications for engine and boiler house, at Mystic River, Charlestown Water-Works. no place, 1863. 23 pp., 10 x 8, b. p.
- 800 —Contract and specifications for laying iron pipe for Charlestown Water-Works. Bost., 1862. 30 pp., 10 x 8, b. p.
- 800 —Contract and specifications for Mystic Pond Dam, Charlestown Water-Works. Bost., no date. 34 pp., 10 x 7, b. p.
- 800 —Contract and specifications for Walnut Hill Reservoir, Charlestown Water-Works. Bost., 1862. 42 pp., 10 x 8, b. p.
- 800 —Contract for pumping engines, Charlestown Water-Works. no place, 1862. unpagd, 10 x 8, b. p. manuscript.
- 463 —Contract of the Mystic Water Board and Somerville Mystic Water Committee, for a supply of Mystic Lake water, 1868. Charlestown, 1869. 7 pp., 9 x 6, b. p.
- 136 —Report of the Commissioners and Chief Engineer of the Charlestown Water-Works, Feb. 28th, 1865. Bost., 1865. 93 pp., 9 x 6, b. p.
- 435 —Report on supplying the City of Charlestown with pure water; made for the City Council. G. R. Baldwin and C. L. Stevenson. Bost., 1860. 77 pp., map, 9 x 5, b. p.

**Dc—(Continued).**

- 634 — Report on the water supply from Upper Mystic Pond for Charlestown, July, 1862. Benjamin Silliman, Jr. Charlestown, 1862. 31 pp., 9 x 6, pap.
- 800 — Specifications and contract for iron water pipe and castings. 27 pp., 10 x 8, b. p. no title-page. manuscript.
- Note: The city of Charlestown was annexed to Boston in 1874. All material on the water-works of the city subsequent to that date will be found under Boston.
- 675 **CHATHAM, N. J.** Outline specification for pumping engines and boiler, piping in engine house, stand-pipe, for a system of water-works in the Borough of Chatham, Morris Co., N. J. N. Y., 1897. 7 pp., 9 x 6, pap.
- 821 — Specifications, proposals and form of contract for materials and pipe laying for a system of water-works in the Borough of Chatham. N. Y., 1897. 16 pp., 9 x 6, pap.
- 463 **CHELSEA, MASS.** Inaugural address of the Mayor to the City Council, Jan. 6th, 1868. Note: Contains report of the Joint Special Committee on Introduction of Water into the City of Chelsea. no place, no date. 33 + 9 pp., 9 x 6, b. p.
- 33 — Report of the Water Commissioners; 1868-71, '76-77. Note: Water supplied by the Charlestown Mystic Water-Works, now owned by Boston. Chelsea, 1868-78. 6 v., 9 x 6, pap.
- 784 **CHEROKEE, IA.** Contract and specifications for Cherokee Water-Works. Cherokee, 1889. unpagcd, 14 x 8, pap.
- 868 **CHESTERFIELD, ENG.** Scheme for the supply of water to the Towns of Sheffield, Rotherham-cum-Kimberworth, and Doncaster, with provision for the future supply of Chesterfield, etc., from the sources of the River Derwent, and the gathering grounds of the Derbyshire Peak. M. B. Jackson. Lond., 1866. 39 pp., 9 x 6, pap.
- CHICAGO, ILL.** Annual reports of the Bureau of Engineering. (See Oc35-2.1 and Oc35-3.1.)
- Charter of the Hydraulic Works: An act to incorporate the Chicago City Hydraulic Co. 1851. (See Dc-441, p. 293.)
- 1019 — Contract for cast-iron pipes. no place, 1855. 6 pp., 8 x 6, b. p. no title-page.
- 230 — Great Chicago Lake Tunnel: The causes which led to its conception, obstacles encountered, how the work was performed, launch of the crib, etc.; also the successful completion of the great enterprise. Chic., 1867. 56 pp., pl., 9 x 6, pap.
- 39 — Low-service system for the supply of water, applied to Chicago. F. C. Whitehouse, G. C. Morgan and W. Zimmermann. Chic., 1872. 8 pp., pl., 8 x 5, pap.
- 791 — Proposals for the construction, delivery and erection of pumping machinery at the 68th Street and Lake View Stations. no place, 1894. 5 pp., pl., 14 x 9, pap. no title-page.
- 809 — Proposals for the construction, delivery and erection of pumping machinery at the 68th Street Station of the Chicago Water-Works. Chic., 1891. 5 pp., 14 x 9, pap. no title-page.
- 442 — Report made to the Water Commissioners of the City of Chicago, Sept. 26th, 1851, on supplying the city with water. W. J. McAlpine. Chic., 1851. 51 pp., 9 x 6, b. p.
- 280 — Report of the Commissioners for testing the Chicago West Side pumping engines. Moses Lane, C. H. Haswell and Henry Warrington. Chic., 1877. 11 pp., il., 9 x 6, pap.
- 429 — Report of the Water Commissioners, made to the Common Council, Dec. 8th, 1851; together with an Act of incorporation, and a statement of the financial condition of the City. Chic., 1851. 18 + 51 + 11 pp., 9 x 6, b. p.
- Report on the water supply and sewage disposal of Chicago. J. H. Rauch. 1886. (See Eg-65, Report of proceedings of quarterly meeting of the Illinois Board of Health, 1886, p. 6.)
- 206 — Reports relating to the Chicago and Brooklyn Water-Works. W. J. McAlpine. no place, 1852. 635 pp., 14 x 9,  $\frac{3}{4}$  sh. no title-page. manuscript.
- 38 — Semi-annual report of the Board of Water Commissioners to the Common Council; 13th; 1857. Chic., 1858. 1 v., 9 x 6, pap.
- 429 — Same; 3d; 1853. 1 v., 7 x 4, b. p.
- 441 — Same; 7th, 9th; 1854, '55. 2 v., 9 x 6, b. p.
- 461 — Same; 9th, 11th; 1855, '56. 2 v., 9 x 6, b. p.
- 471 — Same; 19th; 1860. 1 v., 9 x 6, b. p.
- 1004 — Specifications, etc., for the construction of a conduit on the line of Fullerton Avenue, between Racine Avenue and a point 850 ft. east of the Lake Shore Drive. Chic., 1875. 15 pp., 14 x 8, pap.
- 1002 — Specifications, etc., for the excavation and masonry for branch tunnels, and foundations for the new engine and the engine house. Chic., 1875. 4 pp., 14 x 8, pap.
- 819 — Specifications for a submarine conduit for the Hyde Park, Ill., Water-Works. G. H. Ellers. no place, 1882. 5 pp., 14 x 9, pap. no title-page.



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- 1003 — Specifications for extension of new lake tunnel under the city, to Lots Nos. 1, 2, 3, 4 and 41 of Block 10, in S. J. Walker's Dock Add'n, on Ashland Ave. Chic., 1873. 8 pp., 14 x 8, pap. no title-page.
- 810 — Specifications for pumping machinery at the Water-Works of Chicago. Chic., 1894. 5 pp., pl., 14 x 9, pap.
- 808 — Specifications for pumping machinery for the Chicago Avenue Station of the Chicago Water-Works. Chic., 1894. 5 pp., pl., 14 x 9, pap. no title-page.
- 905 — Specifications for the construction and erection of a pair of pumping engines and boilers for the Chicago Water-Works. Department of Public Works. no place, 1870. 26 pp., 14 x 8, pap.
- 816 — Specifications for the construction of a water tunnel under the bed of Lake Michigan. Chic., 1887. 5 pp., 14 x 9, pap.
- 632 — Specifications for the construction of the extension of the Sixty-Eighth Street Tunnel. Commissioner of Public Works. Chic., 1892. 1 + 16 pp., 14 x 9, pap. no title-page.
- 818 — Specifications for water-works for Hyde-Park, Ill. no place, 1883. 2 + 6 pp., 14 x 9, pap. no title-page.
- 837 **CHICAGO INTERNATIONAL EXHIBITION, 1893.** Specification for cast-iron water pipes. Chic., 1892. 11 + 1 pp., 14 x 8, pap.
- 434 **CINCINNATI, OHIO.** Analyses of the waters in the vicinity of Cincinnati; reported to the Trustees of the City Water-Works. John and J. M. Locke. Cin., 1853. 16 pp., 9 x 6, b. p.
- 225 — Annual report of the Water Department; 1847-64, '67, '69-71, '73-81, '84. Cin., 1848-85. 32 v. in 16, 9 x 6, pap.
- 437 — Same; 1866. 1 v., 9 x 6, b. p.
- 465 — Same; 1868-69. 2 v., 9 x 6, b. p.
- Annual reports of the Water Department. (See Oc45-2.1.)
- 315 — History of the Cincinnati Water-Works, by the Assistant Superintendent. T. J. Bell. Cin., 1881. 59 pp., 13 pl., 9 x 6, pap.
- 314 — Majority and Minority reports of the Select Committee on Water-Works; with the report of the Engineers. no place, 1873. 69 + 33 pp., 9 x 6, pap.
- 309 — Map of proposed extension and enlargement of the Cincinnati Water-Works, by T. R. Scowden, Chief Engineer of the Water Department. Cin., no date. sheet, 25 x 34, pap.
- 465 — Minority report of the Water Supply Commission appointed to consider the best means of supplying the city with pure water. Cin., 1865. 13 pp., 9 x 6, b. p.
- 255 — New water-works for Cincinnati. J. W. Hill. Cin., 1892. 23 pp., 9 x 6, pap.
- Ordinances relating to the management of the City Water-Works. 1854. (See Dc-225, Annual report, 1854, v. 1, p. 20.)
- 310 — Report of the Board of Experts, on the test trial of the Warden compound pumping engine at the Hunt Street Station. J. W. Hill, A. G. Moore and C. Ahrens. Cin., 1879. 125 + 1 pp., pl., 9 x 6, pap.
- 311 — Report of the Engineer Commission to the Board of Administration, on the extension and betterment of the City Water-Works. Cin., 1896. 84 pp., 25 pl., tab., 9 x 6, pap.
- 465 — Report of the Water Supply Commission appointed to take into consideration the best method of obtaining an abundant supply of pure water for the City of Cincinnati. Cin., 1865. 75 pp., maps, 9 x 6, b. p.
- 254 — Report of the Water-Works Investigation Committee. Cincinnati East End Improvement Association. no place, 1891. 11 pp., il., 9 x 6, pap.
- 899 — Report to the Commissioners of Water-Works, on the investigation into the purification of the Ohio River water for the improved water supply of the City of Cincinnati; made by the Board of Trustees. Cin., 1899. 14 + 620 pp., il., 12 pl., 10 tab., 9 x 6, cl.
- 181 — Special report on the extension and enlargement of the Cincinnati Water-Works. T. R. Scowden. Cin., 1872. 19 pp., map, 9 x 6, pap.
- 250 **CLEVELAND, OHIO.** Annual report of the Water-Works Division of the Department of Public Works, 2d-3d, 14th-35th, 38th-42d; 1857-58, '69-90, '93-97. Cleveland, 1858-98. 29 v., 9 x 6, pap.
- 461 — Same; 1st; 1856. 1 v., 9 x 6, b. p.
- Same; 36th-37th; 1891-92. (See Oc50-4.1, Annual reports, 1891-92.)
- 437 — Concise statement of the Water-Works Division, giving the dimensions, capacity and extent, of the important details of the Cleveland Water-Works, for general reference; taken from reports and plans from which the works are being constructed. no place, 1855. 7 pp., 8 x 6, b. p. no title-page.
- 461 — Engineer's report to the Trustees of the Water-Works. Note: Three plans for constructing the Cleveland Water-Works. no place, 1853. 12 pp., 8 x 5, b. p. no title-page.

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- 245 — Ordinances, by-laws, rules and regulations for the management and protection of the City Water-Works, Nov. 11th, 1862. Cleveland, 1862. 32 pp., 6 x 5, pap.
- 429 — Report of the Committee on Water-Works appointed by the Common Council, on the subject of a supply of pure water. Cleveland, 1853. 20 pp., 8 x 5, b. p.
- 429 — Report of the Water-Works Division to the Common Council of the City of Cleveland, on the subject of water-works; together with a supplementary report suggestive of a thorough system of sewerage in connection with water-works. Cleveland, 1853. 24 pp., 8 x 5, b. p.
- 248 — Report on the proposed extension of the water-works tunnel, intercepting sewerage system and river flushing tunnel, for Cleveland. Rudolph Hering and others. no place, 1896. 11 pp., map, 9 x 6, pap.
- 247 — Report on water-works, to the Trustees, by T. R. Scowden, Engineer. Cleveland, 1856. 8 pp., 9 x 6, pap.
- 482 — Report, to the Trustees of the Cleveland City Water-Works, of the analysis of the city water. J. L. Cassels. Cleveland, 1866. 24 pp., 8 x 5, b. p.
- 836 **COLLEGE POINT, N. Y.** Engine house and dwelling, College Point Water-Works. no place, no date. sheet, 22 x 24, cl.
- 277 **COLORADO SPRINGS, COLO.** Report of the Joint Committee on Water System to the Mayor and Common Council. Colorado Springs, 1893. 25 pp., 9 x 6, pap.
- 249 **COLUMBUS, OHIO.** Annual report of the Trustees of the Water-Works; with the reports of the Superintendent and Secretary; 1st-11th, 13th-14th; 1871-81, '83-84. Columbus, 1871-84. 13 v., 9 x 6, pap.
- 244 — By-laws and regulations of Columbus Water-Works, in force May 1st, 1877. Columbus, 1877. 36 pp., 6 x 4, pap.
- 188 **CONCORD, MASS.** Report of the Water Commissioners, and description of the water-works. no place, 1873. 24 pp., 9 x 6, b. p. no title-page.
- 188 — Report of the Water Commissioners, relating to the need of a system of water-works for the town. no place, 1873. 16 pp., 9 x 6, b. p. no title-page.
- 31 **CONCORD, N. H.** Annual report of the Board of Water Commissioners; 1st-3d, 5th-7th, 10th-11th; 1872-74, '77-79, '81-82. Concord, 1873-83. 8 v., 9 x 6, pap.
- CONNECTICUT.** Report on the investigations of river pollution and water supplies, 1879, '93-99. State Board of Health. (See Eg-94.)
- COPENHAGEN, DENMARK.** Water supply of Denmark. I. Rump. 1891. (See Eg-98, p. 71.)
- COVINGTON, KY.** Annual reports of the Board of Water Commissioners. (See Oc70-2.1.)
- 175 — By-laws, rules and regulations for the management and protection of the water-works. Covington, 1876. 15 pp., 9 x 6, pap.
- 701 — Final report to the Trustees of the Covington Reservoir, with an appendix; by G. Bouscaren, Chief Engineer. Cin., 1891. 172 pp., 9 x 6, pap.
- 185 — Report of the Committee, on construction of the Holly Water-Works, together with the reports of the Engineer and Superintendent, and Secretary, with by-laws, ordinances, etc., for the government of the works. Covington, 1871. 95 pp., 9 x 6, b. p.
- Specifications for the new water-works. 1891. (See Dc-701, p. 55.)
- CUBA, N. Y.** Notes in relation to the Genesee River at Rochester, the Albany Bridge, the Rock Island Bridge, and the Water-Works of Cuba. W. J. McAlpine. no date. (See Cb-221.)
- 435 **DANBURY, CONN.** Kohanza Water-Works, for the Borough of Danbury: Contract and specifications for their reconstruction. no place, 1869. 8 pp., 8 x 5, b. p.
- 48 **DANVERS, MASS.** Annual report of the Water Commissioners; 1st, 3d-6th; 1876, '78-81. Danvers, 1877-82. 5 v., 9 x 6, pap.
- 306 **DARMSTADT, GERMANY.** Die Wasserversorgung von Darmstadt, nebst Kostenvoranschlag. Darmstadt, 1878. 50 pp., pl., maps, 9 x 6, pap.
- 747 **DARTMOUTH, N. S.** Specifications for cast-iron pipes and special castings. no place, 1891. unpagcd, 14 x 9, pap. no title-page.
- 40 **DAYTON, OHIO.** Annual report of the Trustees of the Water-Works; together with the reports of the Superintendent, Secretary and Engineer; 1st-12th, 15th; 1870-81, '84. Dayton, 1871-85. 13 v. in 8, 9 x 6, pap.
- 47 — By-laws, rules and regulations for the management of the water-works, as adopted by the Trustees of the Water-Works, Apr. 18th, 1870. Dayton, 1870. 19 pp., 9 x 6, pap.
- 46 — Laws, ordinances and by-laws for the management and protection of the water-works, as amended and adopted by the Trustees of the Water-Works, Apr. 22d, 1875. Dayton, 1875. 12 pp., 9 x 6, pap.
- 45 — Rules, regulations and penalties, and tariff of water rates as amended and adopted by the Trustees of the Water-Works. Dayton, 1875. 21 pp., 6 x 4, pap.

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- 737 **DAYTON, WASH.** Specifications, forms of proposal and articles of agreement. Fire and Water Committee. Pendleton, Ore., 1891. 32 pp., 9 x 6, pap.
- 730 **DE KALB, ILL.** The De Kalb electrical pumping plant. D. W. Mead. no place, 1895. 32 pp., map, 9 x 6, pap.
- DECATUR, ILL.** Annual reports of the City Officers. (See Od20-2.1.)
- 605 **DELAWARE, OHIO.** Delaware, Ohio, Water-Works Investigation. J. W. Hill. no place, 1899. 20 pp., 9 x 6, pap.
- 44 **DENVER, COLO.** Certificate of incorporation of the Denver City Water Co.; together with their proposition to the Denver City Council; and the contract and supplementary contract with the City of Denver. Denver, 1877. 15 pp., 9 x 6, pap.
- DES MOINES, IA.** Annual reports of the City Engineer. (See Od30-2.1.)
- 41 **DETROIT, MICH.** Act of incorporation of the Board of Water Commissioners of the City of Detroit, as amended by the Legislature of 1873. no place, no date. 18 pp., 9 x 6, pap.
- 716 — **Advisability of purchasing Belle Isle for a park, water-works, and basis for a tunnel; a review of a pamphlet, by D. Farrand Henry, entitled "Reasons for desiring a removal of the water-works": A defence of the action of the Common Council and a review of the arguments of the Chief Engineer of the Water Board in favor of the Hamtramck Scheme.** R. O. Roberts, anon. Detroit, 1874. 26 pp., map, 9 x 6, pap.
- 439 — **Annual report of the Board of Water Commissioners to the Common Council; together with reports of officers of the Board; 2d-6th, 8th-18th, 21st-48th; 1853-57, '59-69, '92-99.** Detroit, 1854-1900. 44 v. in 28, 9 x 6,  $\frac{3}{4}$  sh., pap.
- 968 — **High-pressure direct-acting pumping engine for Detroit Water-Works.** Detroit, 1840. 3 sheets, 24 x 20, pap.
- 188 — **History of the Detroit Water-Works from their origin to 1853; compiled by the Superintendent.** no place, 1853. pp. 26-50, 9 x 6, b. p. no title-page.
- 42 — **Regulations of the Board of Water Commissioners.** Detroit, 1873. 23 pp., 9 x 6, pap.
- 439 — **Report of a Special Committee of the Common Council, on the condition and affairs of the Water-Works Department of the City of Detroit.** Detroit, 1866. 15 + 4 pp., 9 x 6, b. p.
- 188 — **Report on the analyses of waters for Detroit.** S. H. Douglass. no place, 1854. pp. 69-83, 9 x 6, b. p. no title-page.
- 556 **DIJON, FRANCE.** Les fontaines publiques de la Ville de Dijon; exposition et application des principes à suivre et des formules à employer dans les questions de distribution d'eau. Henri Darcy. Paris, 1856. 2 v., 28 pl., 11 x 9, (atlas 16 x 12),  $\frac{1}{2}$  cl.
- 868 **DONCASTER, ENG.** Scheme for the supply of water to the Towns of Sheffield, Rotherham-cum-Kimberworth, and Doncaster, with provision for the future supply of Chesterfield, etc., from the sources of the River Derwent, and the gathering grounds of the Derbyshire Peak. M. B. Jackson. Lond., 1866. 39 pp., 9 x 6, pap.
- 213 **DUBLIN, IRELAND.** Act to enable the Lord Mayor, Aldermen, and Burgesses of Dublin, to construct additional water-works; and for other purposes. Great Britain-Parliament. (24 and 25 Victoriae, cap. 172.) Lond., 1863. pp. 2509-2534, 13 x 8, pap.
- 564 — **Report of the Water-Works Committee to the Municipal Council; 10th.** Dublin, 1864. 1 v., 9 x 6, pap.
- 1019 — **Specification of cast-iron mains, pipes, etc.** no place, 1853. unpagcd, 13 x 8, b. p.
- 43 **DUBUQUE, IA.** Articles of incorporation of Dubuque Water Co.; together with ordinances and by-laws relating to the same. Dubuque, 1873. 15 pp., 9 x 6, pap.
- DULUTH, MINN.** Annual reports of the City Engineer. (See Od60-3.1.)
- 786 — **Contract and specifications for manufacturing and laying in trench a 42-in. riveted steel pipe for municipal water-works.** no place, 1896. unpagcd, 14 x 9, pap. no title-page.
- 51 **EAST SAGINAW, MICH.** Annual report of the Board of Water Commissioners to the City Council; together with the reports of the Superintendent and Secretary; 4th-7th, 9th; 1876-79, '81. East Saginaw, 1877-82. 5 v., 9 x 6, pap.
- 188 — **Same; 1st-3d; 1873-75.** 2 v., 9 x 6, b. p.
- 49 — **Ordinance establishing the rules and regulations of the Board of Water Commissioners; together with the acts of incorporation of said Board.** East Saginaw, 1873. 35 pp., 9 x 6, pap.
- 50 — **Rules and regulations governing the use of water, adopted by the Board of Water Commissioners, July 31st, 1874.** East Saginaw, 1874. 8 pp., 8 x 5, pap.
- 847 **EATONTON, GA.** General and detailed specifications for Eatonton Water-Works. Atlanta, 1896. unpagcd, 14 x 8, pap.



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- EDINBURGH, SCOTLAND.** Account of the water-works for supplying Edinburgh with water, 1825. 1831. (See Dc-630, p. 63.)
- 562 —Edinburgh and district water: Statement by the Corporations of Edinburgh, Leith and Portobello. no place, 1869. 18 pp., 9 x 6, pap.
- 568 —Edinburgh and district water supply: The Tweed Scheme for bringing an additional supply of water to Edinburgh. R. A. F. A. Coyne. Edin., 1869. 19 pp., map, 9 x 6, pap.
- 563 —On the water supply of Edinburgh; being a paper read before the Royal Scottish Society of Arts, Nov. 23d, 1863. Alexander Ramsay. Edin., 1863. 20 pp., map, 9 x 6, pap.
- 561 —Water supply: Supplementary statement of the Committee of Directors to the Proprietors of the Edinburgh Water Co. no place, 1869. 11 pp., 9 x 6, pap.
- 684 **ELGIN, ILL.** Specifications for the construction of water-works in the City of Elgin. Elgin, 1887. 48 pp., 9 x 6, pap.
- 343 **ELIZABETH, N. J.** Report of the Water Commissioners to the Senate and General Assembly of the State of New Jersey. no place, 1888. 8 pp., map, 9 x 6, pap.
- 866 **ELMIRA, N. Y.** Rules and regulations, and tariff of annual rates of the Elmira Water-Works Co., adopted Nov. 20th, 1869. Elmira, 1869. 12 pp., 8 x 5, pap.
- 620 **ENGLAND.** On the supply of water to the Lancashire and Yorkshire towns, from the Lake Districts of Cumberland and Westmoreland. Thomas Dale. Lond., 1866. 32 + 5 pp., pl., map, 9 x 6, pap.
- 52 **ERIE, PA.** Annual report of the Water Commissioners; 1871, '79, '81, '83, '94. Erie, 1871-95. 5 v., 9 x 6, pap.
- Engineer's report on intake pipe extension; to the Commissioners of Water-Works, Erie. Rudolph Hering. 1894. (See Dc-52, Annual report, 1894.)
- 967 **EUROPE.** High masonry dams in Europe: Report to the New York State Engineer and Surveyor, by George W. Rafter. Albany, 1897. 19 pp., il., 76 pl., 9 x 6, pap.
- 278 **EVANSVILLE, IND.** Report on the contract trials of the Gaskill compound pumping engine built by the Holly Manufacturing Co. J. W. Hill. Cin., 1881. 73 pp., il., pl., 9 x 6, pap.
- EVERETT, MASS.** Annual reports of the Board of Water Commissioners. Note: Water supplied from the Mystic System, Boston. (See Oe10-2.1.)
- 419 **FALL RIVER, MASS.** Annual report of the Watuppa Water Board to the City Council; 1st-6th, 10th, 13th; 1874-79, '83, '86. Fall River, 1875-87. 8 v., 9 x 6, pap.
- 953 —Contract and specifications for construction of engine house, boiler house, coal house, chimneys, etc. no place, no date. 25 pp., 10 x 8, pap.
- 954 —Contract and specifications for foundations of engine-house, boiler house, coal house, boilers and engines. no place, 1872. 21 pp., 9 x 8, pap.
- 955 —Contract and specifications for trenching and backfilling for water pipes. no place, 187-. 33 pp., 11 x 8, pap.
- 646 —Proposals for cast-iron pipes and special castings. 32 pp., 9 x 6, pap. no title-page.
- 647 —Proposals for excavating and back-filling the trenches for water-pipes. 33 pp., 9 x 6, pap. no title-page.
- 443 —Report of Special Committee of the City Government, on the introduction of a supply of pure water. Fall River, 1870. 26 pp., 8 x 5, b. p.
- 484 —Report of the Judiciary Committee, on the petition of the Mayor of Fall River for an Act to supply the city with pure water. no place, 1871. 12 pp., 9 x 6, b. p. no title-page.
- 420 —Report on the case of the Watuppa Reservoir Co. vs. the City of Fall River, Dec., 1880. William Rotch. Fall River, 1881. 31 pp., 9 x 6, pap.
- 645 —Road and pipe trench: Contract and specifications. no place, 1870-71. 2 v., 8 x 5, pap. no title-page.
- 648 —Specifications for water gates. no place, 1872. 8 pp., 9 x 6, pap.
- 55 **FITCHBURG, MASS.** Annual report of the Water Commissioners of the City of Fitchburg; 1st-7th, 14th; 1873-79, '86. Fitchburg, 1873-87. 8 v., 9 x 6, pap.
- 54 —Annual report of the Water Commissioners of the Town of Fitchburg; 1st-3d; 1871-72. Fitchburg, 1871-73. 3 v., 9 x 6, pap.
- 53 —Report of the Committee appointed to make survey and estimate of cost, for the purpose of introducing pure water into Fitchburg. Fitchburg, 1866. 16 pp., 9 x 6, pap.
- 1020 **FLORENCE, ITALY.** Acquedotto per Firenze, dalla sieve e dalla falterona: Memoria e documenti. A. Cantagalli. Firenze, 1865. 34 + 1 pp., maps, 13 x 10, bds.
- 1016 —Le nuove proposte per addurre in Firenze nuove acque potabili. Amerigo Raddi. Milano, 1896. 28 pp., 9 x 6, pap.
- 183 **FLORENCE, MASS.** Report of the Committee on Water Supply of Northampton, Mass., on the best method of supplying Northampton and Florence with pure water. Northampton, 1870. 21 + 1 pp., 9 x 6, b. p.

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- 676 **FLUSHING, MICH.** Specifications for pumping engines, boilers, feed pump, heater and piping, cast-iron pipe and specials, hydrants, valves and valve boxes, and pipe laying. Flushing, 1885. unpagéd, 11 x 9, pap.
- 855 **FORT BLISS, TEX.** Specifications for labor and material required in the construction and completion of a system of water supply at New Post, Fort Bliss, near El Paso, Tex. U. S.-War Department. El Paso, 1892. 51 pp., 8 x 5, pap. no title-page.
- 751 **FORT EDWARD, N. Y.\*** Proposal, contract and specifications for constructing Fort Edward Water-Works. no place, 1893. 60 pp., 12 x 9, pap.
- 259 **FORT WAYNE, IND.** Annual report of the Trustees of the Water-Works; together with report of the Clerk; 2d-6th; 1881-85. Fort Wayne, 1881-86. 5 v., il., 9 x 6, pap.
- 580 **FORT WORTH, TEX.** Report on the water supply of Fort Worth. J. B. Hawley. Fort Worth, 1894. 8 pp., 9 x 6, pap.
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- 224 —Specifications and estimates of the three successful competitors for premiums offered by the City Council, for the best mode of supplying the city with water; together with the report thereupon of T. C. Keefer. Hamilton, 1855. 77 pp., 8 x 5, b. p.



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- 68 —Tariff of rates and regulations for the use of the Passaic water; also rules regulating the plumbing of houses. Hoboken, 1877. 13 pp., 9 x 6, pap.
- 60 **HOLLY, MICH.** Report of trial test of water-works at Holly, Mich., Dec. 16th, 1879; also report of Construction Committee, and press notices. *Holly Advertiser*. no place, no date. 10 + 2 pp., pl., 9 x 6, pap.
- 61 **HOLYOKE, MASS.** Annual report of the Board of Water Commissioners; 1874-81. Holyoke, 1875-82. 8 v., 9 x 6, pap.  
—Proposals, contract and specifications, for a stone dam across the Connecticut River at Holyoke, Mass. 1895. (See Dd-22.)
- 573 **HONOLULU, H. I.** Report on the filtration of the Nuuanu water supply of Honolulu, H. I. Rudolph Hering. N. Y., 1897. 34 + 2 pp., 9 x 6, pap.
- 62 **HUDSON, N. Y.** Annual report of the Water Commissioners; 3d-6th; 1875-78. Hudson, 1875-78. 4 v., 9 x 6, pap.

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- 428 — Report to the Water Commissioners of the City of Hudson. W. J. McAlpine. Hudson, N. Y., 1872. 61 pp., 8 x 5, b. p.
- HYDE PARK, ILL.** Annual reports of the Department of Water Supply and Distribution. (See Oh60-2.1.)
- IGLAU, AUSTRIA.** Abkühlung des Wassers durch Anlage von Kühltürmen. Arth. Oelwein. (International Cong. of Hygiene and Demography, 7th.) 1891. (See Eg-52, p. 183.)
- INDIA.** Sanitation in India. Baldwin Latham. (International Cong. of Hygiene and Demography, 7th.) 1891. (See Eg-52, p. 173.)
- 66 **INDIANAPOLIS, IND.** Annual report of the Indianapolis Water-Works Co.; 1st-2d; 1871-72. Indianapolis, 1872-73. 2 v., 9 x 6, pap.
- 437 — Articles of association, charter, etc., of the Indianapolis Water-Works Co. N. Y., 1866. 22 pp., 9 x 6, b. p.
- 282 — Report of plan and approximate estimates of cost to supply the City of Indianapolis with water. W. E. Worthen. Indianapolis, 1874. 23 pp., 9 x 6, pap.
- ITALY.** Sui consorzi idraulici di scolo e difesa in Italia. Ministero dei Lavori Pubblici. 1878. (See Ca-68, v. 3, p. 1.)
- JACKSONVILLE, FLA.** Report to the City Council; with report of the Superintendent and Engineer; 1881-86. Jacksonville-Trustees of the Sanitary Improvement Bonds. 1883-86. (See Ec-43.)
- JACKSONVILLE, ILL.** Annual reports of the Water Commissioners. (See Oj5-2.1.)
- 69 — Water-works ordinance, establishing water rates and adopting rules and regulations governing the use of water from the water-works. 8 pp., 8 x 5, pap. no title-page.
- 797 **JEFFERSON, ILL.** Proposed system of water supply for the Town of Jefferson, Ill.; with a report thereon. G. Howard Ellers. Chic., 1885. 27 + 28 pp., 11 x 8, pap.
- Specifications for a proposed system of water supply for Jefferson, Ill. 1885. (See Dc-797, p. 29.)
- 429 **JERSEY CITY, N. J.** Act for the appointment of commissioners in relation to supplying the Townships of Hoboken, Van Vorst, and the City of Jersey with pure and wholesome water. no place, 1851. 16 pp., 9 x 6, pap.
- 488 — Act relating to the Jersey City water and drainage works. Jersey City, 1869. 23 pp., 8 x 5, b. p.
- 486 — Acts of the Legislature in reference to water supply and sewerage, and reports of Water Commissioners; with accompanying documents. Jersey City, 1864. 338 pp., pl., 8 x 5, b. p.
- Annual reports of the Chief Engineer of the Board of Public Works. (See Oj15-2.1.)
- 485 — Further supplement to "An act to authorize the construction of works for the supply of Jersey City and places adjacent with pure and wholesome water," approved Mar. 25th, 1852. New Jersey-Legislature. no place, 1854. 14 pp., 9 x 6, b. p. no title-page.
- 379 — *In re* the proposed dam across the Passaic River. Note: Notes of arguments made before a Committee of the Senate, favoring the passage of a bill permitting the erection of a dam over the Passaic River to prevent the pollution of the water supply of Newark and Jersey City. Newark, 1882. 51 pp., 9 x 6, pap.
- 380 — Pollution of the Passaic River; embracing the report of the Special Committee appointed to represent the Newark Aqueduct Board in the Board of Inspection of the Passaic River and its Tributaries. Newark, 1882. 32 pp., pl., 9 x 6, pap.
- 485 — Report of the Board of Water Commissioners to the Mayor and Common Council; 5th-7th; 1854-56. Jersey City, 1854-56. 3 v., 9 x 6, b. p.
- 487 — Same; 11th-22d; 1860-69. 11 v., 8 x 5, b. p.
- 488 — Same; 13th-23d; 1861-70. 11 v., 8 x 5, b. p.
- Same; 1st-10th; 1852-59. (See Dc-486, p. 45.)
- 965 — Report of the Chief and the Consulting Engineer of the Board of Public Works, 1871. Note: Report on the advisability of substituting the Worthington duplex engines for Cornish engines for the high-service water supply of Jersey City. no place, no date. 8 pp., 9 x 6, pap.
- 351 — Report of the Finance Committee of the Board of Water Commissioners, of the receipts and expenditures on account of the Jersey City Water-Works and Sewers, from July 1st, 1857, to July 1st, 1861; also, showing the arrearages of water rents and assessments for sewers, up to July 1st, 1861. Jersey City, 1861. 20 pp., 9 x 6, pap.
- 86 — Report of the Finance Committee of the Board of Water Commissioners, upon the issue of bonds made under the several acts of the Legislature for supplying Jersey City with water, from the commencement of the works to Oct. 30th, 1860. Jersey City, 1861. 31 pp., 8 x 5, b. p.

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- 852 — Report of the Special Committee of the Common Council, on examination of books, acts, proceedings, etc., of the Board of Water Commissioners of Jersey City. Jersey City, 1864. 20 pp., 9 x 6, pap.
- 429 — Report of the Water Commissioners for Hoboken and Jersey City; with appendix. Jersey City, 1852. 62 + 1 pp., 9 x 6, b. p.
- 485 — Short historical and descriptive account of the Jersey City Water-Works. J. D. Ward. Albany, 1856. 14 pp., pl., 9 x 6, b. p.
- 685 — Specifications for cast-iron water pipes of 36 ins. diameter. no place, 1862. 6 pp., 14 x 9, pap. no title-page.
- 640 — Specifications for completing the lower section of Reservoir No. 3 of the Jersey City Water-Works. unpag., 14 x 9, pap. no title-page.
- 67 — Tariff of rates, and regulations for the use of the Passaic water; also rules regulating the plumbing of houses and tapping of sewers. Jersey City, 1871. 12 pp., 8 x 5, pap.
- 67a — Same. N. Y., 1879. 19 pp., 9 x 6, pap.
- 488 — Same. Jersey City, 1867. 10 pp., 8 x 5, b. p.
- 70 **JOHNSTOWN, N. Y.** Annual report of the Board of Water Commissioners; 1st-2d; 1879-80. Johnstown, 1879-80. 2 v., 9 x 6, pap.
- 71 — Report made to the President and Board of Trustees of the Village of Johnstown, upon the water-works question, Sept., 1877. P. H. Baermann. Johnstown, 1877. 24 pp., 9 x 6, pap.
- 826 — Specifications for construction of reservoir on Cork Center Creek, and conduit line to Johnstown, N. Y. Johnstown, 1894. 45 pp., 9 x 6, pap.
- 221 **JOLIETTE, QUE.** Reglements, Nos. 70 et 79, pour autoriser Joseph Ulric Foucher, marchand de la Ville de Joliette, à construire un aqueduc en bois (ou en fer) pour l'approvisionnement d'eau de la dite Ville de Joliette, et pour déterminer les conditions auxquelles tel privilège lui sera ainsi accordé. Joliette, 1878. 16 pp., 8 x 5, pap.
- KALAMAZOO, MICH.** Annual reports of the Board of Trustees. (See Ok10-2.1.)
- KANSAS CITY, MO.** Annual reports of the Water Commissioners. (See Ok15-2.1.)
- 982 — Drawings of various portions of the Water-Works of Kansas City. F. E. Sickels. no place, no date. 5 sheets, various sizes, pap.
- 294 — Report of Commission of Hydraulic Engineers, to the Board of Public Works. M. L. Holman, G. H. Benzenberg and Charles Hermany. Kansas City, 1891. 23 pp., 9 x 6, pap. no title-page.
- 185 — Report of the Chief Engineer and Committee of Construction, on the water-works, constructed by the National Water-Works Co. at Kansas City, Missouri, for the year 1874, and up to Apr. 15th, 1875. Kansas City, 1875. 96 pp., pl., 9 x 6, b. p.
- 298 — Report on the condition of the Kansas City Water-Works; made Apr. 16th, 1881, to the Common Council. Henry Flad, T. J. Whitman and Moses Lane. Kansas City, 1881. 35 pp., 9 x 6, pap.
- KEENE, N. H.** Annual reports of the Water Commissioners. (See Ok20-2.1.)
- KIMBERWORTH, ENG.** See Rotherham-cum-Kimberworth, Eng.
- 860 **KINGSTON, ONT.** Specifications for furnishing material and constructing a 24-in. steel plate rivetted pipe with flexible joints, and for laying the same in the Harbour at Kingston, Ont. no place, 1890. unpag., 14 x 8, pap. no title-page.
- 852 **KIRKWOOD, ILL.** Specifications for the Water-Works of the Village of Kirkwood, Ill. C. F. Sturtevant. Bolivar, Mo., 1894. 16 pp., 8 x 4, pap.
- LAFAYETTE, IND.** Annual reports of the Superintendent of Water-Works. (See Ok10-2.1.)
- 72 — Rules and regulations for the government and protection of the Lafayette Water-Works, together with the tariff of water rates. no place, 1877. 8 pp., 9 x 6, pap. no title-page.
- 344 **LAMBERTVILLE, N. J.** Annual meeting: A report of the Directors of the Lambertville Water Co. to the Stockholders; 1st-9th; 1878-86. Lambertville, 1878-86. 9 v., 9 x 6, pap.
- 374 **LAWRENCE, MASS.** Annual report of the Water Board to the City Council; 1st-7th, 10th; 1876-82, '85. Lawrence, 1877-86. 8 v., 9 x 6, pap.
- 951 — Contract and specifications for a distributing reservoir. no place, 1873. 47 pp., 11 x 8, pap.
- 950 — Contract and specifications for furnishing stone for the distributing reservoir. no place, 1874. 18 pp., 11 x 8, pap.
- 949 — Contract and specifications for furnishing water pipes and special castings. no place, 1874. 21 pp., 11 x 8, pap.
- 952 — Contract and specifications for laying water pipe. no place, 1874. 35 pp., 11 x 8, pap.



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- 704 —The Lawrence, Mass., filter. J. W. Hill. no place, 1895. pp. 567-569, 10 x 7, pap. no title-page.
- 373 —Quarterly report of the Water Commissioners to the City Council; 1st, 4th-7th, 10th-11th. Lawrence, 1873-76. 6 v., 9 x 6, pap.
- 368 —Report of the Committee on Water, on proposed water-works at Lawrence, Mass. Lawrence, 1872. 55 pp., 9 x 6, pap.
- 369 —Report of the Joint Special Committee on Water Supply. Lawrence, 1871. 11 pp., 9 x 6, pap.
- 367 —Report of the Joint Standing Committee on Water-Works, on the examination of the reports and estimates of the Water Commissioners; made to the City Council. Lawrence, 1875. 60 pp., map, 9 x 6, pap.
- 372 —Report on the trial of duty and capacity of the pumping engines. W. E. Worthen, J. C. Hoadley and J. P. Davis. N. Y., 1876. 43 + 4 pp., 5 pl., 9 x 6, pap.
- 350 **LEBANON, PA.** Report to the Town Council upon a water supply for Lebanon. H. P. M. Birkinbine. Lebanon, 1870. 33 pp., 9 x 6, pap.
- 183 **LEEDS, MASS.** Report of the Committee on Water Supply of Northampton, Mass., on the best method of supplying Northampton and Florence with pure water. Note: Water supplied by the Northampton Water-Works. Northampton, 1870. 21 + 1 pp., 9 x 6, b. p.
- 1019 **LEICESTER, ENG.** Specifications for iron socket pipes and other pipe castings, for the Leicester Water-Works. Leicester Water-Works Co. no place, 1847. 6 + 2 pp., 13 x 8, b. p. no title-page.
- 74 **LEOMINSTER, MASS.** Annual reports of the Water Board; 6th-10th; 1878-82. Leominster, 1878-82. 5 v., 9 x 6, pap.
- 552 **LILLE, FRANCE.** Ville de Lille: Établissement de la distribution d'eau: Rapports, avec pièces à l'appui. Masquelez. Paris, 1871. 2 v., 10 pl., map, 10 x 6, (atlas 15 x 12), ½ cl.
- LINCOLN, MASS.** Annual reports of the Water Commissioners. (See O130-2.1.)
- 641 **LITTLE FALLS, N. Y.** Proposals, contract and specifications for furnishing vitrified salt-glazed clay water pipe. no place, 1886. 18 pp., 9 x 6, pap.
- 328 **LIVERPOOL, ENG.** Annual report of the Engineer of the Water Committee as to the progress of the works; 1886, '99. Note: Report for 1899 contains a history of the works. Liverpool, 1886-1900. 2 v., il., maps, 9 x 6, pap., cl.
- 613 —Liverpool Water-Works. C. H. Beloe. ed. 3. Lond., 1875. 39 pp., il., 8 x 5, pap.
- 611 —Map of the South Lancashire Lakes and Liverpool Water-Works at Rivington. John Whewell. Liverpool, no date. sheet, 28 x 24, pap.
- 530 —On the systems of constant and intermittent water supply and the prevention of waste, with special reference to the restoration of constant service in Liverpool. G. F. Deacon. Lond., 1875. 86 pp., 6 pl., 8 x 5, pap.
- 622 —Report as to the rainfall and stock of water at Rivington. Joseph Parry. Note: Report to the Water Committee of the Town Council. Liverpool, 1885. 4 pp., 9 x 6, pap.
- 609 —Report as to the Vyrnwy masonry dam. G. F. Deacon. Note: Report to the Water Committee. Liverpool, 1885. 36 pp., 10 pl., 9 x 6, pap.
- 476 —Report from the Select Committee of the House of Lords appointed to inquire into the circumstances attending the employment of Joseph Byrne, Joseph Hinde, and Duncan M'Arthur and others, in procuring signatures to a petition purporting to be a petition of rate-payers of the Borough of Liverpool against the Liverpool Corporation Water-Works Bill; together with the minutes of evidence. Great Britain-Select Committee on the Liverpool Corporation Water-Works Bill. no place, 1850. 4 + 69 pp., 13 x 8, b. p.
- 476 —Report from the Select Committee of the House of Lords; together with the minutes of evidence taken before the said Committee, 1850. Note: Relating to the validity of the petition against the Liverpool Corporation Water-Works Bill, presented to the House of Lords, June 17th, 1850. no place, 1850. 70 pp., 13 x 8, b. p.
- 566 —Report of the Borough and Water Engineers, as to the prevention of waste of water, restoration of constant service and waste-water meters. Liverpool, 1873. 17 pp., 9 x 6, pap.
- 329 —Report of the Special Sub-Committee of the Water Committee; 1st-2d; 1877-78. Contents: Report of the Borough and Water Engineer on the Haweswater and Vyrnwy schemes. Analyses, by Dr. J. C. Brown, of samples of water from proposed new sources, and from deep bore holes. Liverpool, 1877-78. 2 v., maps, tab., 9 x 6, pap.
- 567 —Report of the Water Engineer to the Parliamentary Sub-Committee of the Water Committee, on extension of works. Liverpool, 1865. 10 pp., 3 pl., 9 x 6, pap.
- Report of the Water-Works Engineer, on extension of water supply and new works. Liverpool, 1866. 34 pp., map, 9 x 6, b. p. Cb-211, p. 553.
- 612 —Report on the present drought and on possible savings in the consumption of water. Joseph Parry. Liverpool, 1885. 22 pp., 9 x 6, pap.

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- Report on the proposed supply of water to Liverpool, from Bala Lake in North Wales. Robert Rawlinson. Lond., 1866. 32 pp., maps, 8 x 5, b. p. Ec-20, p. 267.
- 201 —Report on the supply of water to the Town of Liverpool. Robert Stephenson. Lond., 1850. 89 pp., pl., 12 x 9,  $\frac{3}{4}$  cf.
- 382 —Report on the Vyrnwy Water-Works. A. H. Holme. Liverpool, 1886. 11 pp., 9 x 6, pap.
- The Vyrnwy Dam of the Liverpool Water-Works. G. W. Rafter. 1897. (See Dc-967, p. 9.)
- 327 —Vyrnwy masonry dam: Report. Andrew Clarke. Liverpool, 1886. 36 pp., il., 9 x 6, pap.
- 610 —Vyrnwy masonry dam: Report. Russel Aitken. Liverpool, 1886. 20 pp., 3 pl., 9 x 6, pap.
- 608 —Waste-water meter recently patented by the Borough and Water Engineer: Report. F. J. Bramwell. Note: Report to the Water Committee of the Town Council. Liverpool, 1874. 11 pp., 9 x 6, pap.
- 345 **LOCKPORT, N. Y.** Prospectus of the Lockport Water Supply Co. Buffalo, 1886. 23 pp., maps, 9 x 6, pap.
- 73 **LOGANSFORT, IND.** Semi-annual reports of the Superintendent of Water-Works; 1st-2d; 1877. Logansport, 1878. 1 v., 8 x 6, pap.
- 211 **LONDON, ENG.** Act to make better provision respecting the supply of water to the Metropolis. Great Britain-Parliament. (15th and 16th Victoria, cap. 84.) Lond., 1865. pp. 861-870, 13 x 8, pap.
- Copies of further reports of the several Metropolitan Water Companies, in continuation of those presented to the House of Commons in session; 1854. Southwark and Vauxhall Water Co. and others. no place, 1855. 5 pp., 13 x 9, b. p. Ec-153, p. 243.
- 557 —Experimental inquiry concerning the relative power of, and useful effect produced by, the Cornish, and Boulton and Watt pumping engines, and cylindrical and waggon-headed boilers. Thomas Wicksteed. Note: Tests of engines erected at the works of the East London Water Co. Lond., 1841. 8 + 34 pp., 7 tab., 11 x 9,  $\frac{3}{4}$  ro.
- 558 —Explanation of the plates of the Cornish, and Boulton and Watt engines, erected at the East London Water-Works, Old Ford. Thomas Wicksteed. Lond., 1842. 2 v., pl., 11 x 9 (pl., 28 x 22),  $\frac{3}{4}$  ro., pap
- 433 —Exposition of a plan for a Metropolitan water supply; shewing that the Thames at Maple-Durham is the most eligible source from which a supply of pure soft water can be brought for the inhabitants of London and its suburbs. L. D. B. Gordon and Charles Liddell. Lond., 1849. 44 pp., 9 x 6, b. p.
- 451 —Further examination of the "gathering grounds" of the proposed Government soft-water supply to the Metropolis, as submitted to the General Board of Health. William Napier. Lond., 1851. 81 pp., 9 x 6, b. p.
- 217 —Geological inquiry respecting the water-bearing strata of the country around London, with reference especially to the water supply of the Metropolis; and including some remarks on springs. Joseph Prestwich. Lond., 1851. 238 pp., map, 9 x 6, cl.
- 474 —Hydraulia: An historical and descriptive account of the Water-Works of London; and the contrivances for supplying other great cities in different ages and countries. William Matthews. Lond., 1835. 20 + 454 pp., pl., maps, 9 x 6, cl.
- 433 —Letter addressed to the Earl of Derby, explaining a proposal for the supply of the Metropolis from the higher sources of the Thames, in conjunction with the storage of surplus waters. J. B. Denton. Lond., 1866. 28 pp., map, 9 x 6, b. p.
- Map of the contours of London and its environs, showing the districts and areas supplied by the nine metropolitan water-works companies. R. W. Mylne. 1856. (See Qf-479.)
- 588 —Minutes of evidence taken before the Committee, Aug., 1851, May, June, 1852. Great Britain-Select Committee on the Metropolis Water Supply Bill. no place, 1851-52. 2 v., 13 x 9,  $\frac{1}{2}$  sh.
- 600 —Minutes of evidence taken before the Royal Commission on Water Supply, of Great Britain, Feb., 1867, to Dec., 1868. Lond., 1869. 2 v., pl., maps, 13 x 9, cl.
- 602 —Minutes of proceedings taken before the Commissioners appointed by the Board of Trade to hold an inquiry in relation to the regulations for a constant supply of water to the Metropolis, under the "Metropolis Water Act," 1871. Lond., 1873. 286 pp., 13 x 9, cl.
- 433 —On a constant water supply for London. J. F. Bateman. Lond., 1867. 22 pp., 9 x 6, b. p.
- 433 —On sanitary misrule, corporate and parochial; on the London water monopoly; and on the question: Should the sanitary government of the country be consolidated, or remain as heretofore a branch of ordinary parochial administration? *London Times*. Lond., 1851. 78 pp., 9 x 6, b. p.

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- On the future water supply of London. G. W. Hemans and Richard Hassard. Lond., 1866. 34 pp., map, 8 x 5, b. p. Ec-20, p. 317.
- 867 —On the supply of water to London from the River Severn. J. F. Bateman. Lond., 1865. 40 pp., maps, 8 x 5, pap.
- 433 —Practical essay on the water supply of the northern, north-eastern and eastern portions of the Metropolis, comprising the Districts of the New River Co. and East London Water Co.; in explanation of an application to Parliament in the Session of 1854, by the Lee Water, Sewage and Navigation Co. W. Burch. Lond., 1853. 65 pp., pl., 9 x 6, b. p.
- 451 —Prospectus of the London (Watford) Spring Water Co. no place, 1851. unpaged, 9 x 6, b. p. no title-page.
- 385 —Report and papers of suggestions on the proposed gathering grounds for the supply of the Metropolis from the soft-water springs of the Surrey Sands; addressed to the General Board of Health. William Napier. Lond., 1851. 74 pp., 8 x 5, pap.
- 903 —Report from the Select Committee of the House of Lords appointed to inquire into the supply of water to the Metropolis, and to report thereon to the House; with the minutes of evidence taken before the Committee, and an appendix. Great Britain-Select Committee on the Metropolis Water Supply. no place, 1840. 3 + 100 pp., 13 x 8, b. p.
- 476 —Report of the Commissioners appointed by His Majesty to inquire into the state of water in the Metropolis, 1828. no place, 1828. 155 pp., 13 x 8, b. p.
- 224 —Report of the General Board of Health of Great Britain, on the supply of water to the Metropolis. Lond., 1850. 5 v. in 2, pl., 8 x 5, b. p.
- 475 —Report of the Royal Commission of Great Britain, on Water Supply. Lond., 1869. 3 + 128 pp., 13 x 9, pap.
- 433 —Report of the Provisional Directors of the London Spring Water Co., to the Shareholders and the public, with the financial statement, and Mr. Hope's opening speech before the Parliamentary Committee. no place, 1852. 38 pp., 9 x 6, b. p.
- 599 —Report of the Select Committee on East London Water Bills together with the proceedings of the Committee, minutes of evidence, appendix and index. no place, 1867. 47 + 523 pp., 13 x 8, cl.
- 518 —Report on the last two cholera epidemics of London, as affected by the consumption of impure water; by the Medical Officer of the General Board of Health of Great Britain. Lond., 1856. 35 pp., 9 x 6, pap.
- Reports of the General Board of Health of Great Britain to the President, on the Metropolis water supply under the provisions of the Metropolis Water Act. Lond., 1856. 102 pp., map, 9 x 6, b. p. Eb-5, p. 129.
- 888 —Return of daily quantities of water pumped by the Grand Junction Water Co., from 1857 to '59. no place, 1859. 5 pp., 12 x 9, pap. no title-page.
- 476 —Return to an order from the House of Commons for copies of all reports or information on the soft water springs in the Surrey Sands; together with any estimates, surveys, or any minutes and correspondence with the General Board of Health thereon, or in relation to the combination of the new sources with other works, 1851. Great Britain-General Board of Health. no place, 1851. 38 pp., 13 x 8, b. p.
- 451 —Review of the report by the General Board of Health on the supply of water to the Metropolis; contained in a report to the Directors of the London (Watford) Spring Water Co. S. C. Homersham. Lond., 1850. 71 pp., 9 x 6, b. p.
- 444 —Supply of water to the Metropolis. no place, 1850. pp. 197-214, 9 x 6, b. p. no title-page.
- 451 —Supply of water to the Metropolis: The case of the rate-payers and consumers stated by the Executive Committee of the Metropolitan Parochial Water Supply Association. Lond., no date. 31 pp., 9 x 6, b. p.
- 433 —Water supply of London, by means of natural filtration of the waters of the River Thames. Telford Macneill. Lond., 1866. 36 pp., map, 9 x 6, b. p.
- Water supply of the Metropolis. Great Britain-Rivers Pollution Commission (1868). 1874. (See Ee-87, v. 6, p. 235.)
- 75 **LONDON, ONT.** Annual report of the Board of Water Commissioners; 1st, 3d-5th, 8th; 1879, '81-83. London, Ont., 1879-86. 5 v., 9 x 6, pap.
- 76 —London Water-Works Acts. London, Ont., 1878. 87 pp., 9 x 6, pap.
- 77 —London Water-Works, schedule of rates and by-laws. London, Ont., 1878. 15 pp., 9 x 6, pap.
- 78 —Statement of receipts and expenditures of the London Water-Works for the eleven months ending Nov. 30th, 1880. no place, 1880. 8 pp., 8 x 5, pap.
- 79 **LONG BRANCH, N. J.** Long Branch Water-Works, 1877. Phil., 1877. 8 pp., 9 x 6, pap.
- 796 **LOUISVILLE, KY.** Advertisement and specifications; with blank proposal, contract, and bond, for the construction of Crescent Hill Reservoir. Louisville, 1876. 69 pp., 11 x 9, pap.



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- 468 —Annual report of the President and Directors of the Louisville Water Co. to the Stockholders; 10th-29th; 1867-86. Louisville, 1868-87. 20 v. in 2, 9 x 6, pap.
- 464 —Same; 1st-12th; 1858-69. 12 v., 9 x 6, b. p.
- 464 —Charter, by-laws, etc., of the Louisville Water Co. Louisville, 1870. 27 pp., 9 x 6, b. p.
- 468 —Extension of works of the Louisville Water Co., with charter and amendments, by-laws and ordinances, resolutions, etc., of the General Council of the City of Louisville relative to the Louisville Water Co.; also, the mortgage on the works. Louisville, 1876. 54 pp., 9 x 6, b. p.
- 465 —Letter of the Mayor to the General Council, submitting a report on water supply. no place, 1866. 8 pp., 9 x 6, b. p. no title-page.
- Report on the investigations into the purification of the Ohio River at Louisville, Ky.; made to the President and Directors of the Louisville Water Co. G. W. Fuller. 1898. (See Db-14.)
- 468 —Rules and regulations governing the introduction, supply and consumption of water from the Louisville Water Co. Louisville, 1875. 16 pp., 9 x 6, b. p.
- 398 **LOWELL, MASS.** Annual report of the Board of Water Commissioners to the Joint Standing Committee of the City Council on Water-Works; 1st-3d; 1870-72. Lowell, 1871-73. 3 v., 9 x 6, pap.
- 399 —Annual report of the Water Board of the City Council; with reports of the Superintendent, and City Engineer; 1st-14th, 17th-19th, 21st-27th; 1873-86, '89-91, '93-99. Lowell, 1874-1900. 24 v., il., pl., 9 x 6, pap.
- 145 —Communication of the Water Board to the City Council, asking for appropriation of money for a supplementary water plant. Lowell, 1892. 21 pp., il., 9 x 6, pap. no title-page.
- 792 —Contract and specifications for building a brick supply conduit for the Lowell Water-Works. no place, 1870. 18 pp., 11 x 8, pap.
- 800 —Contract and specifications for building and erecting a pumping engine with its boilers and appendages for Lowell Water-Works. no place, 1871. 33 pp., 11 x 8, b. p.
- 800 —Contract and specifications for building filtering gallery, gate chamber, and river connection. no place, 1871. 29 pp., 11 x 8, b. p.
- 800 —Contract and specifications for cast-iron coated water pipes and special castings for Lowell Water-Works. no place, 187-. 26 pp., 11 x 8, b. p.
- 800 —Contract and specifications for laying cast-iron water pipes, stop-cocks and other appurtenances for Lowell Water-Works. no place, 187-. 37 pp., 11 x 8, b. p.
- 800 —Contract and specifications for laying pipe conduit, force main and distributing main for Lowell Water-Works. no place, 1871. 33 pp., 11 x 8, b. p.
- 484 —Letter to the voters of the City of Lowell upon the subject of the introduction of a water supply for the city. J. B. Francis. Lowell, 1869. 7 pp., 9 x 6, b. p. no title-page.
- 692 —Proposal and contract for a pumping engine for the Lowell Water-Works. no place, 1891. 26 pp., 10 x 8, pap.
- 484 —Report of the Joint Special Committee on the Introduction of Water. no place, 1866. 60 pp., 9 x 6, b. p.
- 435 —Report of the Joint Special Committee on the supply of water. Lowell, 1869. 81 pp., 9 x 5, b. p.
- 484 —Report of the Joint Special Committee on Water, upon the subject of introducing pure water into the City of Lowell. Lowell, 1848. 24 pp., 9 x 6, b. p.
- 484 —Report of the Joint Standing Committee on Water-Works; together with the report of Joseph P. Davis, Engineer of Lowell Water-Works, upon various schemes for supplying the City of Lowell with water. Lowell, 1870. 24 pp., 9 x 6, b. p.
- 703 —Report upon the sanitary condition of the water supply of Lowell, Mass.; presented to the Water Board of Lowell, Apr. 10th, 1891. W. T. Sedgwick. Lowell, 1891. 53 pp., 9 x 6, pap.
- 800 —Specifications and contract for building a distributing reservoir for the Lowell Water-Works. no place, 1870. 31 pp., 11 x 8, b. p.
- 736 —Test of the fire system belonging to the Proprietors of the locks and canals, made in 1897 at Lowell, Mass. Lowell, 1897. 42 pp., il., pl., map, 9 x 6, pap.
- 759 **LUDLOW, KY.** Specifications for pipe lines, etc., for a water supply for the City of Ludlow, Ky., Aug., 1892. Cin., 1892. 3 + 3 pp., 11 x 8, pap.
- LYNCHBURG, VA.** Annual reports of the City Engineer. (See Ol55-2.1.)
- 527 —Plan of engine of Lynchburg City Water-Works. sheet, 8 x 21, pap. no title-page.
- 381 **LYNN, MASS.** Annual report of the Public Water Board; 1st-8th, 10th, 12th, 14th-15th; 1872-79, '81, '83, '85-86. Lynn, 1873-87. 12 v., 9 x 6, pap.

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- 366 — Report in relation to an additional water supply for the City of Lynn. J. P. Kirkwood. Lynn, 1876. 20 pp., 9 x 6, pap.
- 428 — Report of the Joint Special Committee on Water, on the introduction of water for the city; with reports of the Engineer and Chemist. Lynn, 1870. 83 pp., 9 x 6, b. p.
- 443 — Report on supplying the City of Lynn with pure water; made to the Lynn Aqueduct Co. C. L. Stevenson. Bost., 1864. 71 pp., 8 x 5, b. p.
- 182 — Reports on the trial of duty and capacity of the pumping engine. W. E. Worthen and others. no place, 1873. 35 pp., il., 9 x 6, b. p.
- 200 — Trial of Lynn pumping engines. no place, 1873. 7 v., tab., 13 x 16, bds. no title-page. manuscript.
- 555 **LYONS, FRANCE.** Les eaux de Lyon et de Paris: Description des travaux exécutés à Lyon pour la distribution des eaux du Rhône filtrées et projet pour alimenter Paris en eau de Seine, pour drainer et assainir cette Capitale, suivis d'une pratique des distributions d'eau en général. Aristide Dumont. Paris, 1862. 2 v., 25 pl., 11 x 9, (atlas 14 x 11), cl.
- 80 **MADISON, WIS.** Annual report of the Board of Water Commissioners; together with reports of Superintendent and Secretary; 3d; 1885. Madison, 1885. 1 v., 9 x 6, pap.
- MADRAS, INDIA.** Water-works of Indian cities. L. D'A. Jackson. 1875. (See Da-19, Pt. 2, p. 99.)
- 219 **MALDEN, MASS.** Reports of the Water Commissioners and Water Registrar; 1873-75. Bost., 1874-75. 3 v., 9 x 6, b. p.
- 81 — Reports of the Water Commissioners, Water Registrar and Superintendent; 1876-79, '81. Bost.; 1876-82. 5 v., 9 x 6, pap.
- MANCHESTER, ENG.** The Lake Thirlmeré Dam of the Manchester Water-Works. G. W. Rafter. 1897. (See Dc-967, p. 15.)
- 977 — Plans and sections of water-works extension, and improvements of streets. City Surveyor. Manchester, 1862. 25 pl., 26 x 19, pap.
- 189 **MANCHESTER, N. H.** Annual report of the Board of Water Commissioners; together with the reports of the Chief Engineer; 1st-3d; 1872-74. Manchester, 1873-75. 3 v., 8 x 5, b. p.
- 180 — Same; 5th-10th, 13th, 15th-16th; 1876-81, '84, '86-87. Manchester, 1877-88. 9 v., 9 x 6, pap.
- 435 — Preliminary report on the water supply for the City of Manchester; made to the Directors of the City Aqueduct Co. J. B. Sawyer. Manchester, 1869. 65 pp., 8 x 5, b. p.
- 189 — Report on sources of water supply, with estimates of cost. J. T. Fanning. Manchester, 1872. 43 pp., pl., map, 8 x 5, b. p.
- 686 — Water pipes and appendages. no place, 1872. 47 pp., 10 x 8, pap.
- 83 **MANKATO, MINN.** Ordinances and rules governing the Mankato Water-Works, adopted May 10th, 1880. Mankato, 1880. 6 pp., 9 x 6, pap.
- 84 **MANSFIELD, OHIO.** Annual report of the Trustees of the Water-Works; together with the reports of the Superintendent, Chief Engineer and Secretary; 2d; 1874. Mansfield, 1874. 1 v., 9 x 6, pap.
- 85 **MARION, IND.** Ordinances, rules and regulations for the control and management of the Marion Water-Works, adopted Oct. 1st, 1877. Logansport, 1877. 14 pp., 9 x 6, pap.
- 697 **MARSEILLES, FRANCE.** Les eaux de Marseille, de Nice, de Nîmes, etc., et en général les eaux souterraines naturellement filtrées contenues dans les graviers qui bordent les rivières. Victor Cassaignes. Marseille, 1865. 64 pp., 8 x 6, b. p.
- 697 — Les eaux de Marseille: Résumé général. Victor Cassaignes. Marseille. 1865. 36 pp., 8 x 6, b. p.
- 697 — Les eaux de Marseille: Une solution. De Lavit. Marseille, 1864. 30 pp., 8 x 6, b. p.
- 697 — Étude sur la question de la clarification des eaux de Marseille. Fortuné Pascalis. Marseille, 1865. 28 pp., 5 pl., 8 x 6, b. p.
- 841 — Promenade sur les bords du Canal de Marseille. E. de Saintferréol. Nîmes, 1854. 360 pp., map., 9 x 6, pap.
- 697 — Rapport lu devant les membres de la Commission pour l'Épuration des Eaux du Canal, sur la facile et parfaite exécution d'un canal d'eau de sources pour remplacer sans fortes dépenses, les eaux boueuses de la Durance. C. Musy. Marseille, 1865. 16 pp., 8 x 6, b. p. no title-page.
- 682 — Rapport sur un mémoire présenté par M. Grimaud, de Caux, sur les améliorations à apporter au Canal de Marseille. Dumas, Peligot and Morin. no place, 1865. 11 pp., 11 x 9, pap. no title-page.
- 697 — Réglemens et tarifs pour la distribution des eaux de la Durance dans la Ville et le Territoire de Marseille. Marseille, 1858. 58 pp., 8 x 5, b. p.

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- 697 —Système de clarification des eaux de la Durance par bassins de décantation. C. Musy. Marseille, 1866. 36 pp., pl., 8 x 6, b. p.
- 697 —Système de clarification particulièrement applicable aux eaux de la Durance qui alimentent la Ville de Marseille; présenté à la Commission de l'Épuration des Eaux du Canal: Mémoire à l'appui du projet. Leon Holtz. Marseille, 1866. 15 pp., 8 x 6, b. p.
- 86 **MARSHALLTOWN, IA.** Annual report of the Water-Works Department; 1st-4th, 6th; 1877-80, '82. Marshalltown, 1878-83. 5 v., 9 x 6, pap.
- MASSACHUSETTS.** Act relative to the Metropolitan Water Board; legislation of 1898. 1899. (See Dc-505, Annual report, 1898, p. 215.)
- Act to provide for a Metropolitan water supply; passed 1895. 1897. (See Dc-505, Annual report, 1896, p. 85.)
- 505 —Annual report of the Metropolitan Water Board; 2d-5th; 1896-99. Bost., 1897-1900. 4 v., pl., maps, 9 x 6, cl.
- 229 —Report of the State Board of Health on water supply and sewerage, 1887-90. Bost., 1890. 2 v., pl., maps, 9 x 6, cl.
- Water supply, drainage and sewerage of the State from the sanitary point of view. Frederick Winsor. 1876. (See Eb-34, p. 175.)
- 881 **MASSACHUSETTS AGRICULTURAL COLLEGE.** Contract and specifications for furnishing cast-iron water pipes and specials. Amherst, 1897. 13 pp., 11 x 8, pap.
- 886 —Contract and specifications for laying water pipes and constructing reservoir. no place, 1897. 24 pp., 10 x 8, pap.
- 87 **MEDFORD, MASS.** Annual report of the Water Commissioners; 3d-10th; 1872-79. Bost., 1873-80. 8 v., 9 x 6, pap.
- 88 **MELROSE, MASS.** Report of the Board of Water Commissioners; 1873, '77-81. Bost., 1873-82. 6 v., 9 x 6, pap.
- 187 —Same; 1869-76. 5 v., 9 x 6, b. p.
- 185 **MEMPHIS, TENN.** Annual report of the Board of Directors of the Memphis Water Co., to the Stockholders; 1873. Memphis, 1873. 1 v., 9 x 6, b. p.
- 539 —Final report of the Engineers selected to test the pumping engines and boilers furnished by Henry R. Worthington, New York, for the Artesian Water Co., Memphis, Tenn.; test made Jan. 10th to 14th, 1891. J. J. DeKinder, A. S. Caldwell and C. B. Brush. N. Y., 1891. 18 pp., pl., 10 x 7, pap.
- 89 —Report of duty test of Gaskill's compound, condensing, vertical pumping engines, at Memphis, Tenn., Jan., 1882, to the Memphis Water Co. J. W. Hill. New York, 1882. 15 pp., pl., 9 x 6, pap.
- 437 —Report of the Chief Engineer of the Board of Water-Works and Sewerage Commissioners, upon a public water supply and a system of drainage for the City of Memphis. Louisville, 1868. 110 pp., 9 x 6, b. p.
- 523 —Report of the Water Committee on a public water supply for the City of Memphis, Dec., 1886. Memphis, 1887. 60 pp., pl., 9 x 6, pap.
- 90 **MERIDEN, CONN.** Annual report of the Water Department; 1880. Meriden, 1880. 1 v., 9 x 6, pap.
- Message of the Mayor, and Annual reports of the Departments. (See Om30-2.1.)
- 92 **MIDDLETOWN, CONN.** Annual report of the Board of Water Commissioners; 1874, '84-85. Middletown, 1875-85. 3 v., 9 x 6, pap.
- Annual reports of the Board of Water Commissioners. (See Om35-2.1.)
- 91 —Semi-annual report of the Board of Water Commissioners; 3d; 1866. Middletown, 1867. 1 v., 8 x 5, pap.
- 822 **MILTON, PA.** Specifications of the Milton Water Co. Milton, 1883. 24 pp., 9 x 6, pap.
- MILWAUKEE, WIS.** Annual reports of the Board of Public Works. (See Om40-4.1.)
- Annual reports of the City Engineer. (See Om40-2.1.)
- 257 —Communications and reports of the Board of Water Commissioners to the Common Council; 1872-73. Milwaukee, 1873. 167 pp., 9 x 6, pap.
- 793 —Contract and specifications for a pair of compound pumping engines for the Milwaukee Water-Works. no place, 1872. 65 pp., 10 x 7, pap.
- 1010 —Contract and specifications for laying cast-iron water pipes, stop-cocks and other appurtenances. no place, no date. 41 pp., 9 x 8, pap.
- 1011 —Contract and specifications for the construction, delivery and erection of two double-cylinder, beam and fly-wheel engines. no place, 1872. 18 pp., 9 x 8, pap.
- 739 —General specifications for pumping engine and boilers; Milwaukee Water-Works. N. Y., 1890. 10 pp., 9 x 6, pap.
- 94 —Report of the Board of Water Commissioners; 3d; 1874. Milwaukee, 1874. 1 v., pl., map, 9 x 6, pap.



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- Report of the Commission of Engineers on the collection and final disposal of the sewage, and on the water supply of the City of Milwaukee. G. H. Benzenberg and others. 1889. (See Ec-151.)
- 93 —Report on the Milwaukee Water-Works, to the Mayor and to the Committee on Water-Works, Oct., 28th, 1868. E. S. Chesbrough. Milwaukee, 1868. 27 pp., 9 x 6, pap.
- 284 —Reports on the trial of duty and capacity of the pumping engines. W. E. Worthen, T. J. Whitman and Charles Hermany. N. Y., 1875. 44 pp., pl., 9 x 6, pap.
- 1009 —Specifications for the construction of a distributing reservoir. no place, no date. 38 pp., 9 x 8, pap.
- 827 —Specifications for the construction of Section, No. 1 of the new water-works intake at North Point, City of Milwaukee, by the City Engineer. Milwaukee, 1890. 20 pp., 9 x 6, pap.
- 403 **MINNEAPOLIS, MINN.** Annual report of the Board of Water Commissioners; 1884-85. Minneapolis, 1884-85. 2 v., 9 x 6, pap.
  - Annual reports of the City Engineer. (See Om45-3. 1.)
  - Annual reports of the Superintendent of Water-Works. (See Om45-2. 1.)
- 404 —Ordinance concerning the water-works of the City of Minneapolis, and the duties of the Superintendent of the same: approved May 1st, 1878. Minneapolis, 1878. 12 pp., 9 x 6, pap.
- 825 **MINONK, ILL.** Specifications for brick tower and steel tank for the City of Minonk, Ill. no place, 1896. 10 pp., 8 x 5, pap.
- 758 **MISHAWAKA, IND.** Specifications for furnishing water pipe and special castings, fire hydrants and gate valves, valve boxes, etc., laid in the ground complete, ready for attaching pumping machinery for the Mishawaka Water-Works Co. Mishawaka, 1890. unpagcd, 11 x 8, pap. no title-page.
- 266 **MONTREAL, QUE.** Annual report of the Superintendent of the Water-Works Department; 1868-70, '72-85, '87-88. Montreal, 1869-89. 19 v., 9 x 6, pap.
  - 436 —Same; 1862-67. 6 v., 9 x 6, b. p.
  - 443 —Same; 1871. 1 v., 8 x 5, b. p.
- 270 —General description of the Montreal Water-Works. no place, no date. 1 p., il., 24 x 18, pap.
- 434 —General specifications and form of proposition for aqueduct, and masonry connected therewith. Montreal, 1853. 5 + 1 pp., 15 x 10, b. p.
  - History of the Montreal Water-Works. (See Om55-2.1, Report, 1897.)
- 423 —Letter of the Chief Engineer in reply to resolution of Council for information respecting water-works. Montreal, 1856. 15 pp., 8 x 5, b. p.
- 436 —Letters of "Old Montreal" to the Mayor, and "Vandewater" to the *Montreal Gazette*, on the water-works and water supply. Montreal, 1868. 16 pp., 9 x 6, b. p.
- 272 —Manuscript report to the Water Committee relating to the water supply of Montreal. E. P. Cooke and E. W. Plunkett. Montreal, 1869. 14 pp., 13 x 8, pap.
- 436 —Montreal Water-Works: A reply to Cooke and Plunkett's pamphlet. W. J. McAlpine. Montreal, 1870. 8 pp., 9 x 6, b. p.
- 436 —Montreal Water-Works: The reports of Walter Shanley, T. C. Keefer and James B. Francis reviewed. William Rodden. Montreal, 1869. 26 pp., pl., 9 x 6, b. p.
- 436 —Rapport (du Comité de l'Eau) soumettant les rapports des Ingénieurs sur les nouveaux aqueducs de Montréal. Montreal, 1854. 101 pp., 9 x 6, b. p.
- 901 —Report of the Superintendent of the Water-Works, on the proposed enlargement of the Montreal Water-Works; together with an historical sketch of the works up to the present date; in accordance with instructions from the Water Committee. Montreal, 1873. 2 v., 8 x 5, (atlas 10 x 6), pap.
- 423 —Report of the Water Committee; submitting reports of the Engineers on the new water-works. Note: Contains report of the Chief Engineer, Thomas C. Keefer, and reports of the Consulting Engineers, John B. Jervis and W. J. McAlpine. Montreal, 1854. 92 pp., 8 x 5, b. p.
- 423 —Report of the Water-Works Examination Commission. Montreal, 1853. 11 pp., 8 x 5, b. p.
- 429 —Report on a preliminary survey for the water supply of the City of Montreal. T. C. Keefer. Montreal, 1852. 26 pp., 8 x 5, b. p.
- 436 —Report on the erection of a new steam-pumping apparatus for the Montreal Water-Works. Samuel Risley. Montreal, 1869. 8 pp., 9 x 6, b. p.
- 423 —Report on the project for conducting the tail-race water of the Montreal Water-Works from the wheel-house to Hochelaga Bay. T. Trudeau and John Cliff. Montreal, 1857. 10 pp., 8 x 5, b. p.
- 436 —Report on the Water-Works of the City of Montreal. T. C. Keefer. Montreal, 1868. 20 pp., 9 x 6, b. p.

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- 436 —Report on the Water-Works of the City of Montreal. W. J. McAlpine. Montreal, 1869. 28 pp., 9 x 6, b. p.
- 436 —Report on the Water-Works of the City of Montreal; accompanied by a report of James B. Francis on the same subject. Walter Shanley. Montreal, 1868. 24 pp., 9 x 6, b. p.
- Reports on the corporation accounts, and reports of the Chiefs of Departments. (See Om55-2.1.)
- 271 —Rules and regulations for the employees in the Department of the Montreal Water-Works. Montreal, 1873. 51 pp., 5 x 4, cl.
- Special Report of the Water Committee, and of the Superintendent of Water-Works, upon the difficulties experienced during the winter, 1865-66, in supplying the city with water. 1866. (See Dc-436, p. 265.)
- 538 —Specifications for excavation, masonry, crib-work and fencing for the proposed new aqueduct of the Montreal Water-Works: General descriptions and conditions. no place, 1870. unpagcd, 22 x 10, pap. no title-page.
- 642 —Specifications for the excavation, masonry, crib-work, bridging and fencing for the tail-race of the Montreal Water-Works. no place, 1862. 16 pp., 9 x 6, pap.
- 234 —Water supply and the Hydraulic Company question. ed. 2, enl. Note: Relates to the proposed water supply for Montreal, by the St. Louis Hydraulic Co. Montreal, 1868. 52 pp., 9 x 6, pap.
- 436 —Water-Works of Montreal: Observations upon the report of Mr. McAlpine, and the future supply of the city. R. P. Cooke and E. W. Plunkett. Montreal, 1869. 16 pp., tab., 9 x 6, b. p.
- NASHVILLE, TENN.** Annual reports of the Treasurer and other city officers. (See On10-2.1.)
- 750 —Cast-iron water pipe for force main: Contract, specifications, proposal and instructions to bidders. no place, 1885. 8 pp., 14 x 8, pap.
- 95 **NATICK, MASS.** Annual report of the Board of Water Commissioners; 2d-5th; 1876-79. Natick, 1876-79. 4 v., 9 x 6, pap.
- 442 **NEW BEDFORD, MASS.** Account of the method adopted to repair a breach in the earthen dam of the storing reservoir of the New Bedford Water-Works. W. J. McAlpine. 16 pp., 9 x 6, b. p. no title-page.
- 299 —Annual report of the Water Board to the City Council; 1st-12th, 14th, 16th; 1870-81, '84, '86. New Bedford, 1871-86. 14 v., 9 x 6, pap.
- 908 —Contract and specifications for distributing reservoir. no place, 1867. 26 pp., 10 x 8, pap.
- 907 —Contract and specifications for storing reservoir, brick conduit, and receiving reservoir. no place, 1866. 65 pp., 10 x 8, pap.
- 857 —Further water supply: Contract and specifications for 48-in. force main, by the Water Board, Mar., 1896. no place, 1896. 79 pp., 6 x 4, pap.
- 435 —Ordinance establishing the water rates of the New Bedford Water-Works. no place, 1869. 6 pp., 9 x 5, b. p. no title-page.
- 435 —Ordinance to provide for the establishment of the Acushnet Water Board, and for the care and management of the New Bedford Water-Works. no place, 1869. 10 pp., 9 x 5, b. p. no title-page.
- 443 —Report made to the Common Council of the City of New Bedford on supplying the city with water. W. J. McAlpine. no place, 1865. 96 pp., 8 x 6, b. p.
- 297 —Report of a trial of the pumping engine of the water-works, in the City of New Bedford, Mass. J. C. Hoadley and others. New Bedford, 1870. 19 pp., 9 x 6, pap.
- 435 —Report of the Joint Special Committee on the Introduction of Fresh Water. New Bedford, 1862. 26 pp., 9 x 5, b. p.
- 435 —Report of the Joint Special Committee on the Introduction of Fresh Water, with the Act of the Legislature authorizing the same. New Bedford, 1864. 41 pp., map, 9 x 5, b. p.
- 435 —Report of the Joint Special Committee on the Introduction of Fresh Water; with the report of W. J. McAlpine and the analysis of Prof. Chace. New Bedford, 1865. 96 pp., 9 x 5, b. p.
- 442 —Review of the McAlpine pumping machine, recently constructed for the New Bedford Water-Works; with an introduction by William J. McAlpine. R. E. Briggs. N. Y., 1868. 23 pp., 9 x 6, b. p.
- 912 —Specifications and contract for pump well, culverts, etc. no place, 1867. 28 pp., 10 x 8, pap. no title-page.
- 909 —Specifications for cast-iron pipes. no place, no date. 15 pp., 10 x 8, pap. no title-page.
- 911 —Specifications for furnishing all materials and doing all of the work to fully complete an engine house for the water-works of the City of New Bedford. E. D. Lindsey. New Bedford, 1868. 12 pp., 9 x 8, pap.

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- 910 —Specifications for the construction and erection of a condensing, beam, pumping engine and two boilers for the New Bedford Water-Works. no place, no date. 7 pp., 10 x 8, pap. no title-page.
- 405 **NEW BRIGHTON, N. Y.** Report of the Health Committee of the Richmond County Good Government Club on the water supply of New Brighton and Port Richmond. no place, 1895. 23 pp., 9 x 6, pap. no title-page.
- 96 **NEW BRIGHTON, PA.** Water rates adopted by the New Brighton Water-Works Co. New Brighton, 1879. unpagd, 7 x 6, pap.
- 97 **NEW BRITAIN, CONN.** Annual report of the Water Commissioners; 20th-23d; 1877-80. New Britain, 1877-80. 4 v., 9 x 6, pap.
- 219 —Same; 17th-19th; 1874-76. 3 v., 9 x 6, b. p.
- 99 **NEW BRUNSWICK, N. J.** Annual report of the Water Commissioners to the Common Council; 4th-6th; 1876-78. New Brunswick, 1877-79. 3 v., 9 x 6, pap.
- 187 —Same; 1st; 1873-74. 1 v., 9 x 6, b. p.
- 191 —Same; 2d-3d; 1874-75. 1 v., 9 x 6, b. p.
- 98 —Rules, regulations and rates for the government of water takers and plumbers, and for the protection of the works. New Brunswick, 1867. 16 pp., 6 x 4, pap.
- 411 **NEW HAVEN, CONN.** Annual report of the Board of Directors of the New Haven Water Co. to the Stockholders; 13th-15th; 1874-76. New Haven, 1875-77. 3 v., 9 x 6, pap.
- 993 —Same; 1st-12th; 1863-74. New Haven, 1872-74. 12 v., 8 x 5, b. p.
- 993 —Charter of the New Haven Water Company; with amendments. Connecticut General Assembly. New Haven, 1874. 15 pp., 8 x 5, b. p.
- 683 —Contract between the City of New Haven, and the New Haven Water Co. no place, 1881. 8 pp., 9 x 6, pap.
- 410 —Report of the Joint Special Committee on Water, to the Common Council, July, 1881. New Haven, 1881. 19 pp., 9 x 6, pap.
- 408 —Report of the Special Investigating Committee of the Court of Common Council, as to the purchase of the New Haven Water-Works. New Haven, 1881. 15 pp., 9 x 6, pap.
- Reports of the Committees, concerning the purchase of the New Haven Water-Works: Water contract. (See On20-2.1, Annual book, 1881, p. 336.)
- 240 **NEW JERSEY.** Proposed act for furnishing state water supply to the municipalities of New Jersey; introduced in the Assembly, Mar. 7th, 1893, at the request of the Board of Trade of Jersey City. O'Brien. no place, no date. 48 pp., 9 x 6, mor.
- Public water supply systems of New Jersey classified by sources. New Jersey-Geological Survey. 1894. (See Yh-25, v. 3, p. 315.)
- 416 —Report of Commissioners of State Water Supply; 2d-3d; Jan., Mar., 1884. Trenton, 1883-84. 2 v., 9 x 6, pap.
- 100 **NEW LONDON, CONN.** Annual report of the Board of Water Commissioners; 3d-11th; 1874-82. New London, 1874-82. 9 v., 9 x 6, pap.
- 962 —Reservoir dam. New London-Board of Water Commissioners. (Contract No. 2.) no place, 1872. 55 pp., 11 x 8, pap.
- 963 —Water pipes and appendages. New London-Board of Water Commissioners. (Contract No. 1.) no place, 1871. 32 pp., 11 x 8, pap.
- 102 **NEW ORLEANS, LA.** Annual report of the New Orleans Water-Works Co. to the Board of Directors; 1879-82. New Orleans, 1879-82. 4 v., 9 x 6, pap.
- 101 —Report of the Water-Works and Public Buildings Department; 1871, '77. New Orleans, 1871-77. 2 v., 9 x 6, pap.
- NEW SOUTH WALES—DEPARTMENT OF PUBLIC WORKS.** Report of the Engineer-in-Chief, on water-works. 1892. (See De-115, Annual report of the Public Works Department.)
- 631 **NEW YORK, N. Y.** Act to provide for supplying the City of New York with pure and wholesome water, passed May 2d, 1854. 6 pp., 8 x 5, b. p. no title-page.
- 629 —Acts of the Legislature of the State, and ordinances and resolutions of the Common Council; with the rules and regulations of the Croton Aqueduct Board in relation to the subject of the introduction, supply, and the use of Croton water in the City of New York, from 1833 to 1861. N. Y., 1861. 110 + 6 pp., 8 x 5, b. p.
- 631 —Amendment, by the Joint Finance Committee of the Board of Aldermen, to the law relating to the creation of "the water stock of the City of New York," May 1835. pp. 631-634, 8 x 5, b. p. no title-page.
- 444 —Annual report of the Croton Aqueduct Board; 1843-44. N. Y., 1844. 1 v., 9 x 6, b. p.
- 627 —Annual report of the Croton Aqueduct Department made to the Common Council; 4th, 11th, 13th-21st; 1852, '59, '61-69. N. Y., 1852-70. 11 v. in 6, 9 x 6, cl.
- 432 —Same; 1st; 1849. 1 v., 9 x 6, b. p.
- 629 —Same; 3d-5th, 7th, 9th, 11th, 13th; 1851-53, '55, '57, '59, '61, 7 v., 8 x 5, b. p.



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- 454 — Same; 10th, 15th-16th; 1858, '63-64. 3 v., 8 x 5, b. p.  
— Annual reports of the Department of Public Works. (See On25-8.1.)
- 651 — Answer of A. W. Craven, Chief Engineer, Croton Aqueduct, to charges made by Fernando Wood, Mayor. N. Y., 1860. 52 pp., 9 x 6, pap.
- 687 — Case relating to the contract, of Nov. 10th, 1838, for the construction of Section 96, of the Croton Aqueduct. N. Y., 1855. 259 pp., 10 x 8, pap. no title-page.
- 319 — Catalogue of the illustrations of the water supply of the City of New York; written for the Board of General Managers of the Exhibit of the State of New York at the World's Columbian Exposition. Edward Wegmann, Jr. N. Y., 1893. 68 pp., 7 x 5, pap.
- 660 — Circular, from the Chief Engineer of the New York Water-Works, to the Resident Engineers on the Croton Aqueduct. N. Y., 1837. 8 pp., 9 x 6, pap.
- 383 — Communication from the Board of Health, relative to the condition of the new aqueduct, New York. Albany, 1886. 50 pp., map, 9 x 6, pap.
- 776 — Contract and specification for building a reservoir and two gate-houses for high-service at Carmansville, N. Y. N. Y., 186-. unpag., 13 x 8, pap. no title-page.
- 769 — Contract and specification for new reservoir at Yorkhill. N. Y., 1857. unpag., 14 x 8, pap. no title-page.
- 775 — Contract and specifications for building the upper portion of the dam and appurtenances for the storage reservoir near Boyd's Corners. no place, 1869. 13 pp., 13 x 8, pap. no title-page.
- 671 — Contract drawings for the Croton Aqueduct. no place, 1885. 3 v., pl., 24 x 20, ¾ ro., pap. no title-page.
- 771 — Contract for furnishing and laying a 48-in. cast-iron conduit pipe from Kensico to a point between Hartsdale and Scarsdale, Westchester Co., N. Y. N. Y., 1881. 24 pp., 14 x 8, pap.
- 773 — Contract for furnishing stop-cocks, stop-cock boxes, and hydrants. N. Y., 1881. 14 pp., 14 x 8, pap.
- 770 — Contract for laying Croton water main. N. Y., 1881. 14 pp., 14 x 8, pap. no title-page.
- 668 — Croton water supply for the City of New York: An address delivered at the opening of the new building of the New York Municipal Society, Dec. 21st, 1876; together with the resolutions then adopted. George B. Butler. N. Y., 1877. 24 pp., map, 9 x 6, pap.
- 667 — Description of the Croton Aqueduct, by John B. Jervis, Chief Engineer. N. Y., 1842. 31 pp., 9 x 6, pap.
- 595 — Description of the New York Croton Aqueduct. G. T. Schramke. N. Y., 1846. 60 pp., 20 pl., 13 x 10, bds.
- 983 — Drawings of details of Croton Aqueduct at High Bridge and part of High Bridge. N. Y., 1877(?) 4 sheets, 18 x 40, cl. scale, 10 ft. to 1 in.  
— Entire Croton water-shed above Quaker Bridge. no date. (See Qf-69.)
- 765 — Form of contract for building the new Croton Dam on Croton River, at Cornell Site. N. Y., 1892. 54 pp., 11 x 8, pap.
- 767 — General specifications for Quaker Bridge Dam, and appurtenances. 4 pp., 13 x 8, pap. no title-page.
- 594 — Illustrations of the Croton Aqueduct. F. B. Tower. Note: Contains history of the water supply of New York. N. Y., 1843. 152 pp., 24 pl., 13 x 10, cl.
- 623 — In the matter of the application of Hubert O. Thompson, as Commissioner of Public Works, to acquire certain water rights in the Towns of Mount Pleasant, North Castle, Greenburgh and White Plains, in the County of Westchester: Proceedings, Bronx River Diversion, Parcels 68 to 120. N. Y., 1888. 3 v., pl., maps, 9 x 6, sh.
- 840 — In the matter of the proposed removal of 42d Street Reservoir: Memorandum in opposition thereto. N. Y., 1896. 50 pp., 9 x 6, pap.  
— Law of the Common Council to instruct the Water Commissioners to proceed in the work of supplying the city with water and to create a public fund or stock to be called "the Water Stock of the City of New York," for the expenses of said work. 1835. (See Dc-631, p. 427.)
- 697 — Map and contract drawings for the Croton Aqueduct. N. Y., 1885. 2 pp., 15 pl., 9 x 17, pap. no title-page.
- 781 — Map of the route of the New Croton Aqueduct, present aqueduct, and Bronx River pipe line; also the water-sheds of the Croton, Bronx and Byram Rivers. no place, 1886. sheet, 14 x 37, pap.
- 985 — Maps of the proposed Quaker Bridge Reservoir, and the location, elevation and sections of Quaker Bridge Dam. N. Y., 1885. 3 sheets, various sizes, cl. scale, about 715 ft. to 1 in.

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- 591 —Mémorial of the construction, cost, and capacity of the Croton Aqueduct, compiled from official documents; together with an account of the civic celebration of the 14th Oct., 1842, on occasion of the completion of the great work; preceded by a preliminary essay on ancient and modern aqueducts. Charles King. N. Y., 1843. 8 + 308 pp., pl., 11 x 9, cl.
- 655 —Mémorial of the construction of a masonry dam for a storage reservoir. J. J. R. Croes. N. Y., 1875. 6 + 31 pp., pl., 9 x 6, cl.
- 652 —The New Croton Aqueduct. Lee Treadwell. 8 pp., 9 x 6, pap. no title-page.
- 659 —New York water supply: Report on storage reservoirs in the Croton, by Isaac Newton, Chief Engineer of the Croton Aqueduct; opinion of Consulting Engineers. N. Y., 1883. 19 pp., map, 9 x 6, pap.
- 669 —New York water supply: Report to Hubert O. Thompson, Commissioner of Public Works, by Isaac Newton, Chief Engineer; opinion of E. S. Chesbrough, Consulting Engineer. N. Y., 1881. 14 pp., 9 x 6, pap.
- 492 —Opinion in relation to the entering upon lands, etc., for temporary purposes, in the construction of the Croton Aqueduct, the damage to be appraised either before or after the use of such lands, etc. D. B. Tallmadge. N. Y., 1837. 16 pp., 9 x 6, b. p.
- 662 —Opinion of the Court of Appeals, on appeal of John C. Campbell from an order of the Supreme Court denying his application for a reversal of the proceedings of the Commissioner of Public Works in removing him from the office of Chief Engineer of the Croton Aqueduct. N. Y., 1880. 7 pp., 11 x 7, pap.
- 492 —Ordinance of the Common Council, establishing a scale of water rents for the Croton Aqueduct Department. no place, 1850. 8 + 10 pp., 8 x 5, b. p. no title-page.
- 978 —Photographs of the New Croton Dam, New York water supply. Coleman, Breuchaud & Coleman. no place, no date. phot., 11 x 14, cl. no title-page.
- 861 —Plans and proposals presented to the New York Sinking Fund Commissioners, for an efficient fire service and for sanitary purposes, by the Metropolitan Water Co. N. Y., 1885. 27 pp., 9 x 6, pap.
- 976 —Plates of details of the Croton Aqueduct. J. B. Jervis. no place, no date. pl., 39 x 26, ½ sh. no title-page.
- 772 —Proposals and specifications for building a dam and appurtenances, near Boyd's Corners, Putnam County, N. Y. no place, 1866. 20 pp., 13 x 8, pap. no title-page.
- 766 —Proposals for furnishing cast-iron water pipes, branch pipes and special castings. N. Y., 1881. 12 pp., 14 x 8, pap. no title page.
- 1000 —Proposals for laying Croton water mains, and the necessary branches, curved pipes, and special castings in—. N. Y., 1878. 3 pp., 14 x 8, pap. no title-page.
- 768 —Proposals for the New Croton Aqueduct, Sections A and B. N. Y., 1884. 2 v., 14 x 8, pap. no title-page.
- 656 —Public notice as to water rates, and rules governing the use of water; also a table of the amount of water supplied per day through meters. N. Y., 1886-87. 3 pp., 10 x 8, pap. no title-page. newspaper slips.
- 898 —The Ramapo Water Contract: Report of a preliminary inquiry, and action taken and proposed, for a radical investigation, Nov. 16th, 1899. Merchants' Association of New York. N. Y., 1899. 50 pp., 9 x 6, pap.
- 666 —Regulations establishing a scale of water rents for the City of New York, May, 1876. N. Y., 1876. 9 pp., 9 x 6, pap.
- 711 —Remarks before the Mayor and Commission, on the projects for an increased supply. W. J. McAlpine. N. Y., 1883. 8 pp, 9 x 6, pap.
- 713 —Remonstrance of the Municipal Society of New York against the removal of the Murray Hill Reservoir, including a petition for the bill introduced into the Assembly by Mr. Mitchell to authorize a commission to consider the whole question of water supply and distribution. N. Y., 1880. 14 pp., pl., 9 x 6, pap.
- 878 —Report made to the Comptroller of the City of New York, commenting upon statements made by William Dalton, Commissioner of the Department of Water Supply in his communication to the Board of Public Improvements, Aug. 9th, 1899, advocating the adoption of the offer of the Ramapo Water Co. E. E. McLean. N. Y., 1899. 17 pp., 9 x 6, pap. no title-page.
- 877 —Report made to the Comptroller of the City of New York, on the Esopus Creek as a source of water supply by the Ramapo Water Co. G. S. Rice. N. Y., 1899. 5 pp., 9 x 6, pap. no title-page.
- 879 —Report made to the Comptroller of the City of New York, upon the present condition of the water supply, with special reference to the offer of the Ramapo Water Co. to furnish water to the city. J. J. R. Croes. N. Y., 1899. 12 pp., 9 x 6, pap. no title-page.
- 715 —Report of a plan for supplementing the Croton water supply to the City of New York from the Ramapo District. W. J. McAlpine. N. Y., 1882. 28 pp., map, 9 x 6, pap.

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- 664 —Report of Examining Engineers, on the charges preferred against the Chief Engineer of the Aqueduct Commission. John Newton, G. S. Greene and Q. A. Gillmore. N. Y., 1886. 12 pp., 9 x 6, pap.
- 712 —Report of Hubert O. Thompson, Commissioner of Public Works, to William R. Grace, Mayor of the City of New York, on proposed new aqueduct and storage reservoir for additional supply from Croton River; with detailed report of Isaac Newton, Chief Engineer of the Croton Aqueduct, and opinions of Consulting Engineers. N. Y., 1882. 8 + 63 pp., 12 tab., map, 9 x 6, pap.
- 714 —Report of Isaac Newton, Chief Engineer of Croton Aqueduct, on plans proposed for storing and conveying an additional water supply to the city; opinions of the Consulting Engineers; tables of rainfall, etc.; map showing drainage area and aqueduct lines. N. Y., 1882. 63 pp., map, 12 tab., 9 x 6, pap.
- 631 —Report of the Board of Assistant Aldermen; and law in relation to the loan to be made for procuring pure and wholesome water in the City of New York, Apr., 1835. no place, no date. pp. 605-611, 8 x 5, b. p.
- 700 —Report of the Chief Engineer of the Aqueduct Commission, on the building of a high masonry dam on the lower part of the Croton River, Oct. 8th, 1890. N. Y., 1890. 8 pp., 11 x 7, pap.
- 579 —Report of the Commissioner of Public Works to the Aqueduct Commissioners, supplementary to his report of Aug. 8th, 1883, upon plans for an additional supply of water to the City of New York; and relating to the plans, specifications and estimates for the construction of the proposed Quaker Bridge Dam. no place, 1884. 13 pp., pl., 9 x 6, pap.
- 630 —Report of the Committee of the Board of Aldermen on Fire and Water, on the subject of applying to the Legislature for the passage of an Act authorizing the city to borrow a sum not exceeding two million of dollars to supply the city with water. 1883. pp. 3-8, 8 x 5, b. p. no title-page.
- 630 —Report of the Committee of the Board of Aldermen on Fire and Water, on various communications and resolutions on the subject of supplying the city with water. Dec. 31st, 1831. 75 pp., 8 x 5, b. p. no title-page.
- 630 —Report of the Committee of the Board of Aldermen on Fire and Water, relative to the proposition of requesting authority from the Legislature to contract a loan of two million dollars for the purpose of supplying the city with water, Dec., 1832. no place, no date. 2 pp., 8 x 5, b. p.
- 631 —Report of the Committee of the Board of Aldermen on Fire and Water, to whom was referred the report of the Water Commissioners, and the documents accompanying the same, in relation to supplying the City of New York with pure and wholesome water, Mar., 1835. pp. 517-528, 8 x 5, b. p. no title-page.
- 631 —Report of the Committee of the Board of Aldermen on Fire and Water, transmitting letters from D. J. Rhoads and James Seymour, relating to supplying the City of New York with water, Apr., 1834. pp. 909-915, 8 x 5, b. p. no title-page.
- 631 —Report of the Committee of the Board of Aldermen on Fire and Water, upon the communication of the Water Commissioners on the introduction of water into the city; and a law appropriating money for the survey, June, 1834. pp. 73-76, 8 x 5, b. p. no title-page.
- 670 —Report of the Minority of the Special Committee of the Board of Assistant Aldermen, on the subject of the ordinance creating the Aqueduct Department, and to amend the ordinance to instruct the Water Commissioners. N. Y., 1840. pp. 115-144, pl., 9 x 6, pap.
- 631 —Report of the Street Committee of the Board of Aldermen, on the communication received from the Water Commissioners relative to reserving land for reservoirs, etc., Dec., 1836. pp. 543-550, 8 x 5, b. p. no title-page.
- 631 —Report of the Water Commissioners; May 19th, 1834. 3 pp., 8 x 5, b. p. no title-page.
- 631 —Report of the Water Commissioners, on the progress of the work of supplying the city with water; Aug., 1836. pp. 61-69, 8 x 5, b. p. no title-page.
- 631 —Report of the Water Commissioners, relative to supplying the City of New York with pure and wholesome water, Nov., 1833. N. Y., 1833. pp. 357-410, pl., maps, 8 x 5, b. p.
- 631 —Report of the Water Commissioners, upon the re-examination of the surveys and estimates for supplying the city with water, Feb., 1835. pp. 323-525, 8 x 5, b. p. no title-page.
- 631 —Report of the Water Commissioners, upon the subject of the water supply for the city, and the necessity of an additional appropriation by the city for further surveys, May, 1834. 3 + 2 pp., 8 x 5, b. p. no title-page.
- 657 —Report on a water supply for New York and other cities of the Hudson Valley; Nos. 1-2. Note: Report of J. T. Fanning, Chief Engineer of the New York & Hudson Valley Aqueduct Co. N. Y., 1881-84. 2 v., pl., map, 9 x 6, pap.
- 654 —Report on Croton water, to the Health Department. Elwyn Waller. N. Y., 1881, 45 pp., pl., 9 x 6, pap.



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- Report on the Croton water-shed. C. C. Brown. 1889. (See Eg-3, Annual report, 1889, p. 189.)
- 653 —Report on the plans proposed by Isaac Newton, Chief Engineer of the Croton Aqueduct. J. B. Jervis. N. Y., 1882. 18 pp., 9 x 6, pap.
- 709 —Report on the projected reservoir and aqueduct for the additional water supply of New York City. W. E. Worthen. N. Y., 1884. 4 pp., map, 9 x 6, pap. no title-page.
- 598 —Report to the Aqueduct Commissioners, by the President, containing reports of the Secretary and of the Chief Engineer; giving a review of the work of the Aqueduct Commission to Jan., 1895. N. Y., 1887-96. 2 v., il., pl., tab., maps, 14 x 11, cl.
- 631 —Report to the Directors of the New York Water-Works Co., by the Engineer; Jan., 1826. 11 pp., 8 x 5, b. p. no title-page.
- 829 —Reports of the Chief Engineer of the Aqueduct Commission, and the Chief Engineer and Consulting Engineer of the Department of Public Works, to the Aqueduct Commissioners, in relation to constructing the Quaker Bridge Dam and Reservoir. N. Y., 1886. 19 pp., map, 9 x 6, pap.
- Reports of the Department of Public Works. (See On25-8.2.)
- 596 —Reports on researches concerning the design and construction of high masonry dams, in view of the proposed building of Quaker Bridge Dam; by B. S. Church, A. Fteley, and a Board of Experts appointed by the Aqueduct Commission, Mar., 1888. N. Y., 1889. 64 pp., 27 pl., 12 tab., 12 x 10, cl.
- 592 —Reports relating to the Croton Aqueduct, the dry-dock at the Brooklyn Navy Yard, and the Erie Canal, from 1852 to '53. unpagcd, 14 x 9, sh. no title page. manuscript.
- 630 —Reports upon the subject of supplying the City of New York with water; by DeWitt Clinton and others. (City doc. No. 61.) N. Y., 1832. pp. 191-291, 8 x 5, b. p. no title-page.
- 437 —Sanitary qualities of the water supply of New York and Brooklyn; with chemical analysis, by C. F. Chandler. Elisha Harris. N. Y., 1868. 16 pp., 9 x 6, b. p.
- 658 —Semi-annual report of the Water Commissioners; Dec., 1848. N. Y., 1849. 1 v., 8 x 5, pap.
- Same; Dec., 1886-June, 1839. 6 v., 9 x 5, pap. Ab-2, p. 215.
- Same; Dec., 1837, Dec., '39, Dec., '41. 3 v., 8 x 5, b. p. Cfh-74, p. 509.
- 444 —Same; Dec., 1839, Dec., '40, Dec., '41. 3 v., 9 x 6, b. p.
- 1001 —Specification, etc., for building a storage reservoir on the Middle Branch of the Croton River, in the Town of South East, Putnam County, N. Y., near Wood's Mill. no place, no date. 18 pp., phot., 14 x 8, pap. no title-page.
- 1008 —Specifications, etc., for furnishing cast-iron water pipes, branch pipes, and special castings. no place, no date. 10 pp., 14 x 8, pap.
- 774 —Specifications for building gate-houses and aqueduct for the new reservoir of hydraulic masonry. N. Y., 1858. 25 pp., 13 x 8, pap.
- 764 —Specifications for the construction of the New Croton Aqueduct, Sections 1 to 11. N. Y., 1884-85. 11 v., 11 x 8, pap. no title-page.
- 763 —Specifications of the manner of constructing the general work of the Croton Aqueduct. N. Y., 1837(?) various pagings, 13 x 8, b. p. no title-page.
- 631 —Spring water *versus* river water, for supplying the City of New York; also an examination of the Water Commissioners' Report of Nov., 1833, refuting many of the objections therein contained, and exhibiting errors in their estimates. M. Hale. N. Y., 1835. 50 + 2 pp., pl., map, 8 x 5, b. p.
- 710 —Standard sizes of hubs and spigots of water pipes. N. Y., 1876. pl., 28 x 25, cl.
- 661 —Statement of the case relating to the contract of Nov. 10th, 1838, for the construction of Section 96 of the Croton Aqueduct. 16 pp., 9 x 6, pap. no title-page.
- Topographical map of Croton water-shed. W. E. Worthen. 1889. (See Qf-127.)
- Topographical map showing the entire water-shed of Croton River above the Croton Aqueduct Dam, also the most available sites for storage reservoirs; from minute surveys made during the years 1857 and 1858. (See Qf-144.)
- 597 —Two reports on researches concerning the design and construction of high masonry dams, in view of the proposed building of Quaker Bridge Dam; by B. S. Church and A. Fteley. no place, 1887. 48 pp., pl., tab., 12 x 10, cl.
- 665 —Water supply of the City of New York. Elwyn Waller. no place, 1882 (?) 7 pp., 9 x 6, pap. no title-page.
- 593 —Water supply of the City of New York, 1658-1895. Edward Wegmann. N. Y., 1896. 11 + 316 pp., il., 148 pl., 12 x 10, cl.
- 895 —The water supply situation in New York. J. J. R. Croes. N. Y., 1899. newspaper slips, 9 x 8, pap.
- 628 —Water-waste prevention; its importance and the evils due to its neglect; with an account of the methods adopted in various cities in Great Britain and the United States. H. C. Meyer. N. Y., 1885. 70 pp., 9 x 6, cl.

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- 103 **NEWARK, N. J.** Act incorporating the Newark Aqueduct Board. no place, 1869. 22 pp., 9 x 6, pap.
- 371 —Annual report of the Aqueduct Board; 1871, '73-90. Newark, 1872-91. 19 v., 9 x 6, pap.
- 364 —Annual report of the Board of Street and Water Commissioners; 1894-96. Newark, 1895-97. 3 v., 9 x 6, pap.
- 363 —Annual report of the Committee on the Department of Water, of the Board of Street and Water Commissioners; 1891-93. Newark, 1892-94. 3 v., 9 x 6, pap.
- 377 —By-laws of the Aqueduct Board, adopted Jan. 14th, 1862. Newark, 1874. 11 pp., 6 x 4, pap.
- 379 —*In re* the proposed dam across the Passaic River. New Jersey-Senate. Note: Notes of arguments made before a Committee of the Senate, favoring the passage of a bill permitting the erection of a dam, over the Passaic River, to prevent the pollution of the water supply of Newark and Jersey City. Newark, 1882. 51 pp., 9 x 6, pap.
- 380 —Pollution of the Passaic River; embracing the report of the Special Committee appointed to represent the Newark Aqueduct Board in the Board of Inspection of the Passaic River and its Tributaries. Newark, 1882. 32 pp., pl., 9 x 6, pap.
- 437 —Report of the Aqueduct Board, upon the subject of a supply of water for the City of Newark, by the Engineer, Jan. 31st, 1861. Newark, 1861. 64 pp., 9 x 6, b. p.
- 375 —Report of the Engineer of the Aqueduct Board, in relation to the pumping engine. no place, 1870. 8 pp., 9 x 6, pap.
- 242 —Report on additional water supply; Mar. 6th, 1879. J. J. R. Croes and G. W. Howell. Note: Report to the Newark Aqueduct Board. Newark, 1879. 108 pp., pl., maps in pocket, 9 x 6, cl.
- 378 —Rules and regulations of the Aqueduct Board, governing the supply of water for the City of Newark, N. J. Newark, 1879. 16 pp., 6 x 4, pap.
- Semi-annual report of the Aqueduct Board; 1st; 1860. 1861. (See On30-3 1, Message of the Mayor, 1860, p. 16.)
- 370 —Same; Dec., 1870. 1 v., 9 x 6, pap.
- 104 **NEWBURGH, N. Y.** Annual report of the Water Commissioners, to the Common Council; 11th-14th; 1877-80. Newburgh, 1877-80. 4 v., 9 x 6, pap.
- 508 **NEWBURYPORT, MASS.** Newburyport Water Co. *vs.* City of Newburyport; Newburyport Water Case. Note: Case relates to the valuation of the water-works. Bost., 1895-96. 5 v., 11 x 7, bds.
- 109 **NEWPORT, KY.** Annual report of the Trustees of the Water-Works; 1881. Newport, 1882. 1 v., 8 x 5, pap.
- Annual reports submitted to the Board of Councilmen. (See On35-2.1.)
- 106 —Report of the City Council on water-works, Jan. 16th, 1872. Cin., 1872. 7 pp., 9 x 6, pap.
- 193 —Report of the Superintendent of Water-Works, to the Board of Councilmen; 1874-76. no place, 1875-76. 2 v., 8 x 6, b. p.
- 193 —Report of the Superintendent of Water-Works to the City Council; 1st; 1873. Newport, 1874. 1 v., 9 x 6, b. p.
- 108 —Report of the Superintendent of Water-Works to the Committee on Water-Works; 1st; 1874. Newport, 1874. 1 v., 9 x 6, pap.
- 105 —Report on water-works to the Common Council of the City of Newport; by the Chief Engineer. T. R. Scowden. Cin., 1870. 17 pp., 9 x 6, pap.
- 107 —Rules and regulations for the management and protection of the Newport Water-Works, as adopted, Apr. 9th, 1874, and confirmed by the City Council, Apr. 15th, 1874. Cin., 1874. 18 + 1 pp., 9 x 6, pap.
- NEWTON, MASS.** Annual reports of the Water Department. (See On40-2.1.)
- 375 —Duty trial of a fly-wheel, high duty, automatic cut-off, cross-compound, pumping engine. George F. Blake Manufacturing Co. no place, 1892. 27 + 5 pp., il., 8 x 5, pap.
- 305 —Report of the Board of Water Commissioners; 1877. Bost., 1877. 1 v., il., pl., 9 x 6, pap.
- 415 **NEWTON, N. J.** Construction and annual report of the Board of Water Commissioners; 1st; 1896. Newton, 1896. 1 v., 9 x 6, pap.
- 256 —Newton Water-Works. L. L. Tribus. no place, 1896. 6 pp., il., 9 x 7, pap.
- 550 **NÎMES, FRANCE.** Les eaux de Nîmes, de Paris et de Londres: Description des travaux exécutés à Nîmes pour la distribution des eaux du Rhône filtrées. Aristide et Georges Dumont. Paris, 1874. 2 v., 11 x 9, 14 x 12, 1/2 ro.
- 110 **NORFOLK, VA.** Annual report of the Board of Water Commissioners; 1872-74, '76-80, '84. Norfolk, 1873-84. 9 v., 9 x 6, pap.
- General specifications for the water-works; issued by the Water Department. 1871. (See De-443, p. 205.)

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- Municipal reports. (See On45-2.1.)
- 443 —Report and plans for a supply of water for the City of Norfolk, Va. W. J. McAlpine. Norfolk, 1871. various pagings, 8 x 5, b. p.
- 190 —Report of the Board of Water Commissioners, from the commencement of the work to Feb. 1st, 1873, showing condition and progress. Norfolk, 1873. pp. 35-76, 9 x 6, b. p.
- 603 —Specifications for pumping engines and boilers. no place, 1890. unpagcd, 9 x 6, pap. no title-page.
- 729 **NORTH CAROLINA.** Report on the sanitary inspection of the State Institutions and the water supply and sewage disposal of cities and towns. J. C. Chase. Raleigh, N. C., 1895. 25 pp., 9 x 6, pap.
- 113 **NORTHAMPTON, MASS.** Annual report of the Board of Water Commissioners; 2d; 1885. Bost., 1886. 1 v., 9 x 6, pap.  
—Annual reports of officers of the city. (See On55-2.1.)
- 183 —Report of Committee on Water Supply, on the best method of supplying Northampton and Florence with pure water. Northampton, 1870. 21 + 1 pp., 9 x 6, b. p.
- 183 —Report of the Board of Water Commissioners; 1st-5th; 1872-76. Northampton, 1872-76. 5 v., 9 x 6, b. p.
- 111 —Same; 6th-9th; 1877-80. Northampton, 1877-80. 4 v., 9 x 6, pap.
- 189 **NORWALK, CONN.** Annual report of the Board of Water Commissioners; 2d; 1872. Norwalk, 1873. 1 v., 8 x 5, b. p.
- 794 **NORWICH, CONN.** Contract and specifications of embankment and reservoir for Norwich Water-Works. no place, 1867. 55 pp., 11 x 8, pap.
- 183 —Report of the Board of Water Commissioners to the Court of Common Council; 1st; 1870. Norwich, 1870. 1 v., 9 x 6, b. p.
- 114 —Report of the Superintendent of Water-Works to the Board of Water Commissioners; 2d-4th, 6th-7th; 1875-77, '79-80. Norwich, 1875-80. 5 v., 9 x 6, pap.  
—Report on the physical and chemical condition of the water supplied to the City of Norwich from Fair-View Reservoir. Benjamin Silliman, Jr. Norwich, 1873. 15 pp., 9 x 6, b. p. Ec-25, p. 233.
- 115 **OAKLAND, CAL.** Report of the Water Commissioners, with rates adopted, July 26th, 1877. Note: Table of rates fixed for the Contra Costa Water Co. Oakland, 1877. 8 pp., 9 x 6, pap.
- OGDENSBURG, N. Y.** Annual report of the Mayor. (See Oo10-2.1.)
- 116 **OMAHA, NEB.** Notice for proposals for furnishing the City of Omaha with water for fire protection, for a term of twenty-five years, in accordance with Ordinance No. 409, passed Jan. 6th, 1880. Omaha, 1880. 11 pp., 9 x 6, pap.
- 442 **OSWEGO, N. Y.** Report on supplying the City of Oswego with water, made to the Mayor and Common Council, Sept., 1866. W. J. McAlpine. Oswego, 1866. 37 pp., 9 x 6, b. p.
- 302 **OTTAWA, ONT.** Annual report of the Water Commissioners; 1876-78. Ottawa, 1877-79. 3 v., 9 x 6, pap.
- 301 —Annual report of the Water-Works Committee to the Corporation of the City of Ottawa; 1879-80, '82-88, '90-91. Ottawa, 1879-91. 11 v., 9 x 7, pap.
- 303 —Final report made to the Water Commissioners, 1876. T. C. Keefer. Ottawa, 1876. 54 pp., 9 x 6, pap.
- 443 —Report of the Committee of the Corporation of the City of Ottawa and of the City Engineer, on Water-Works. Ottawa, 1871. 28 pp., 8 x 5, b. p.
- 304 —Report on the supply of water, drainage and improvement of the City of Ottawa. G. H. Perry. Ottawa, 1861. 88 pp., 8 x 5, pap.
- 436 —Report on water supply for the City of Ottawa. T. C. Keefer. Ottawa, 1869. 40 pp., 9 x 6, b. p.
- 443 —Report to the Water-Works Committee of the Corporation of the City of Ottawa. Louis Lesage. Ottawa, 1871. 14 pp., 8 x 5, b. p.
- 118 **OWENSBORO, KY.** Account of the Owensboro Water Co., and of its first-mortgage bonds; May 10th, 1879. Louisville, 1879. 28 pp., 9 x 6, pap.
- 117 —By-laws, rules and regulations of the Owensboro Water Co. Owensboro, no date. 13 pp., 7 x 5, pap.
- 521 **OWOSSO, MICH.** Water supply of Owosso. S. E. Parkhill. 8 pp., 9 x 6, pap. no title-page.
- 119 **OXFORD, N. Y.** A water supply for the Village of Oxford, N. Y. P. H. Baerman. Oxford, 1879. 12 pp., 8 x 5, pap.
- 689 **PARIS, FRANCE.** Dérivation des sources de la Vallée de la Vanne: Mémoire du Préfecture du Département de la Seine. Paris, 1871. 86 pp., 9 x 6, pap.  
—Direction des Travaux de Paris: Service des Eaux et des Égouts; suite du portefeuille. 1881. (See Ec-169.)



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- 698 — Documents relatifs aux eaux de Paris. Contents: Premier mémoire présenté par le Préfet de la Seine au Conseil Municipal, 1855. Second mémoire présenté, 1858. Troisième mémoire présenté, 1860. Rapport de la Commission d'Enquête Administrative chargée d'examiner le projet de dérivation des sources de la Dhuis. Rapport de la Commission Spéciale des Puits Artésiens. Paris, 1861. 461 pp., map, 7 x 4,  $\frac{3}{4}$  ro.
- 555 — Les eaux de Lyon et de Paris: Description des travaux exécutés à Lyon pour la distribution des eaux du Rhône filtrées, et projet pour alimenter Paris en eau de Seine, pour drainer et assainir cette Capitale, suivis d'une pratique des distributions d'eau en général. Aristide Dumont. Paris, 1862. 2 v., 25 pl., 11 x 9, (atlas 14 x 11), cl.
- 590 — Les eaux de Paris, leur passé, leur état présent, leur avenir. Louis Figuier. Paris, 1862. 8 + 291 pp., map, 7 x 5,  $\frac{1}{2}$  ro.  
— État actuel de la question des eaux et des égouts à Paris et à Londres. Aristide and Georges Dumont. 1874. (See Dc-550, p. 213.)
- 650 — Mémoire sur l'avant-projet de dérivation des sources de la Vanne. E. Belgrand. Paris, 1866. 64 pp., il., 13 x 9, b. p.
- 581 — Mémoire sur les eaux de Paris présenté à la Commission Municipale. Paris, 1854. 57 pp., 12 x 9,  $\frac{1}{2}$  ro.
- 690 — Mémoire sur les Réservoirs de Gentilly et de Coulanges-la-Vineuse. Rozat de Mandres. Paris, 1867. 16 pp., pl., 9 x 5, pap.  
— Notes à l'appui du compte des dépenses de l'exercice; 1896-97. (See Op5-1.2.)
- 681 — Notice sur le puits artésien foré dans l'enceinte de l'abattoir de Grenelle. Dela perche. no place, 1858. pp. 171-183, pl., 9 x 6, pap. no title-page.
- 582 — Notice sur une dérivation des eaux de la Loire pour l'alimentation de la Ville de Paris, des Villes d'Orléans, Pithiviers, Étampes, etc., etc., et du Plateau de la Beauce. E. Girard et Robin-Duvernoy. Paris, 1859. 11 + 38 pp., 12 x 9,  $\frac{1}{2}$  ro.  
— Pétition au Sénat du Conseil Général de la Marne. Note: Protests against the use of the waters of the Somme River for the benefit of the City of Paris. Chalons, 1861. unpagd, 13 x 8, b. p. no title page. Da-4, p. 241.
- 722 — Le puits artésien de Grenelle. Rey. Paris, 1844. 56 pp., il., 9 x 6, pap.
- 586 — Rapport, du 9 Floréal, an X. Sur les moyens de fournir l'eau nécessaire à la Ville de Paris, et particulièrement sur la dérivation des Rivières d'Ourcq, de la Beuvronne, de l'Yvette, de la Bièvre et autres. L. Bruyère. Paris, 1804. 48 pp., 11 x 8,  $\frac{1}{2}$  ro.  
— Rapport sur le projet de recherches d'eaux à faire dans les roches crayeuses de la Champagne pour l'alimentation de Paris, fait le 29 Juin, 1861, à la Commission Spéciale d'Enquête. L. Bertrand-Lemaire. Chalons, 1862. 36 + 4 pp., 9 x 5, b. p. Da-4, p. 209.  
— Réponse aux documents relatifs aux eaux de Paris publiés par les soins de M. le Préfet de la Seine. C. Thiénot. Epernay, 1862. 48 pp., 9 x 5, b. p. Da-4, p. 243.
- 583 — Seconde mémoire sur les eaux de Paris, présenté au Conseil Municipal, 16 Juillet, 1858. Paris, 1858. 2 v. in 1, 12 pl., 12 x 10,  $\frac{1}{2}$  cl.  
— Sur la température des eaux souterraines de Paris pendant le mois de Décembre, 1879. Alfred Durand-Claye. Paris, 1880. 3 pp., 11 x 9, b. p. no title page. Cb-165, p. 87.  
— Sur les conditions qu'on a dû chercher à réaliser dans le choix des sources destinées à l'alimentation de la Ville de Paris. E. Belgrand. 8 pp., 11 x 9, b. p. no title-page. Cb-165, p. 21.
- 728 — Ville de Paris: Distribution générale des eaux de sources; carte d'ensemble des conduites maîtresses. Paris, no date. sheet, 18 x 28, pap.
- 120 PARIS, ILL. Report, including the Secretary's and Engineer's reports, together with the tariff of water rates and rules and regulations. Paris, 1879. 36 pp., 8 x 5, pap.
- 122 PAWTUCKET, R. I. Annual report of the Water Commissioners and Superintendent of Water-Works; 1st-2d, 8th; 1881-82, '87. Pawtucket, 1881-88. 3 v., 9 x 6, pap.
- 616 — Pawtucket water question: Discussion on the Holly System of water-works. Holly-Baloo, pseud. 10 pp., 9 x 6, pap. no title-page.
- 121 — Quarterly report of the Water Commissioners; 1st-9th, 11th-13th; 1877-80. Pawtucket, 1877-80. 12 v., 9 x 6, pap.
- 123 PEEKSKILL, N. Y. Rates, rules and regulations in relation to the introduction, supply and use of water from the water-works for 1876. Peekskill, 1876. unpagd, 9 x 6, pap.
- 273 — Report of the Water Commissioners; 1872-77. Peekskill, 1877. 1 v., 9 x 6, pap.
- 1019 PENRITH, ENG. Specifications for cast-iron water pipe. no place, 1852. various pagings, 13 x 9, b. p.
- PEORIA, ILL. Cost of the Peoria Water-Works. 1872. (See Op20-2.1, Report for 1871, p. 43.)

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- 124 —Ordinances for the government of water takers, plumbers, etc. Peoria, 1869-13 + 3 pp., 9 x 6, pap.
- 295 —Preliminary report of the Committee on Water-Works, on the best means of supplying the City of Peoria with water. Note: Contains an analysis of water, and abstract of state laws relative to the construction of water-works. Peoria, 1864. 24 pp., 9 x 6, pap.
- 572 **PÉRIGUEUX, FRANCE.** Note sur des pompes servant, à l'alimentation de la distribution d'eau de la Ville de Périgueux. Harlé. Paris, 1865. 31 pp., 2 pl., 9 x 6, pap.
- 672 **PERTH AMBOY, N. J.** Specifications for the construction, delivery and erection of a pumping engine to be erected at the station in Runyon, N. J. no place, 1897. unpagd, 14 x 9, pap. no title-page.
- 125 **PERU, IND.** Report of construction of Peru Water-Works, and maintenance of same up to May 1st, 1880, by Committee appointed by City Council. Indianapolis, 1880. 28 pp., 9 x 6, pap.
- 999 —Specifications, etc., for furnishing materials and constructing water-works. no place, no date. 13 pp., 14 x 8, pap. no title-page.
- 459 **PHILADELPHIA, PA.** Annual report of the Chief Engineer of the Water Department; 63d, 71st, 74th, 76th-85th; 1864, '72, '75, '77-86. Phil., 1865-87. 13 v., 9 x 6, cl.
- 441 —Same; 53d-54th; 1854-55. 2 v., 9 x 6, b. p.
- 454 —Same; 57th, 63d; 1858, '64. 2 v., 9 x 6, b. p.
- 428 —Same; 64th, 73d; 1865, '74. 2 v., 9 x 6, b. p.
- 463 —Same; 65th, 67th, 70th; 1866, '68, '71. 3 v., 9 x 6, b. p.
- 455 —Same; 66th-70th; 1867-71. 5 v., 9 x 6, b. p.
- 456 —Same; 72d-76th; 1873-77. 5 v., pl., 9 x 6, b. p.
- 459a —Annual report of the Water Bureau; 86th-95th, 97th; 1888-96, '98. Phil., 1888-99. 11 v., pl., maps, tab., 9 x 6, cl.
- 429 —Annual report of the Watering Committee to the Select and Common Councils; 1852. Phil., 1853. 1 v., 9 x 6, b. p.
- 831 —Cast-iron boiler in use at the Schuylkill Engine House, Philadelphia Water-Works, from 1803 to 1815. sheet, 14 x 12, pap.
- 357 —Citizens' memorial to the Select and Common Councils on the water supply of the City of Philadelphia. Parry Burnham, Williams & Co. and others. Phil., 1887. 6 pp., 9 x 6, pap.
- Description of the Philadelphia Water-Works, ed. by William Strickland, E. H. Gill and H. R. Campbell. 1841. (See Ca-70, p. 105.)
- 833 —Diagrams by the Water Department, showing pumpage and rainfall from 1810 to 1876. Phil., no date. sheet, 15 x 12, pap.
- 832 —Diagrams showing daily pumpage. no place, 1876-77. 2 sheets, 15 x 12, pap.
- 574 —Distribution d'eau de Philadelphie: Usine de Belmont créée en 1870. Émil Malézieux. no place, 1872. sheet, 14 x 17, pap.
- 725 —Drawings of the Frankfort pumping station. Phil., 1877. 2 pl., 16 x 26, pap. no title-page.
- History of water supply of Philadelphia. W. H. McFadden. 1876. (See Dc-459, 1875, p. 7.)
- 356 —Legal protection of the present water supply for Philadelphia. W. W. Carr. Phil., 1886. 48 pp., 9 x 6, pap.
- 893 —Letter to the Director of the Department of Public Works of Philadelphia, relating to the improvement of the water supply of the city. J. C. Trautwine, Jr. no place, 1899. 3 pp., 9 x 6, pap. no title-page.
- 894 —Letter to the Mayor of Philadelphia, recommending the construction of a filtration plant in the Roxborough District, as an object lesson in waste restriction. J. C. Trautwine, Jr. no place, 1899. 10 pp., 9 x 6, pap. no title-page.
- 291 —New system of supplying Philadelphia with water from the Schuylkill and Wissahickon, without the aid of steam power. James Haworth. Phil., 1875. 43 pp., 7 x 4, pap.
- 355 —Notes upon the early history of the employment of water power for supplying the City of Philadelphia with water, and the building and rebuilding of the dam at Fairmount. Frederic Graff. Phil., 1886. 7 pp., 3 pl., 9 x 6, pap.
- 360 —Notes upon the Water-Works of Philadelphia, 1801-1815. Frederic Graff. Phil., 1876. 7 pp., 9 x 6, pap.
- 457 —Preliminary investigations for a new water supply for Philadelphia: extracts from the Annual report of the Chief Engineer, 1883-87. Contents: Surveys for future water supply: A summary by the Chief Engineer, pp. 6, 102, 261, 396. Preliminary report, report of progress and final report of a chemical investigation into the present and future water supply of Philadelphia, by Albert R. Leeds, pp. 15, 227, 361. Surveys for future supply, report of progress and final

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- report, 1883, '84, '85, '86, by Rudolph Hering, pp. 47, 189, 291, 413. Summary of statistics of pollution of the Schuylkill (tables), p. 97; Report of a sanitary survey of the Schuylkill Valley, by Dana C. Barber, p. 121. South Mountain Water Co., p. 268. Sanitary surveys of proposed future supply water-sheds, by Dana C. Barber, pp. 218, 339. Pumpage diagram, Map showing proposed aqueduct routes, Map of general water-sheds, showing distribution of population; Profiles (two) of proposed aqueduct lines, in pocket in cover. Report on hydrographic work in connection with future supply, by Amasa Ely, pp. 405, 567. Address on the Schuylkill River as a source of water supply, by Chas. W. Dulles, M. D., p. 517. Address before the Water Committee of Councils, Jan. 13th, 1887, by Dr. J. Cheston Morris, p. 551. various pagings, pl., maps in pocket, tab., 9 x 6, b. p. no title-page.
- 517 —Proposition of the South Mountain Water Co., to the Councils of the City of Philadelphia, to lease the water-works and construct a new system of water supply for the City of Philadelphia: Proceedings before the Councils. no place, 1886. 136 pp., map, tab., 9 x 6, pap.
- 458 —Report made by the Commission of Engineers, appointed by the Mayor under the ordinance of Councils, approved June 5th, 1875. Phil., 1875. 143 pp., pl., tab., 9 x 6, cl.
- 312 —Report of a Special Committee of the Fairmount Park Commissioners, upon the preservation of the purity of the water supply. Phil., 1867. 24 pp., 10 x 7, pap.
- 287 —Report of Experts and Engineers appointed to test the duty and capacity of the Worthington pumping engines at Belmont. J. G. Neafie and others. no place, 1872. 6 pp., 9 x 6, pap. no title-page.
- 318 —Report of the Committee on Municipal Contracts, to the Executive Committee, concerning the Queen Lane Reservoir. Citizens' Municipal Association. Phil., 1894. 16 pp., 9 x 6, pap. no title-page.
- 362 —Report of the Philadelphia Watering Committee; read in Select Council, Nov. 12th, 1818. Note: Report upon the necessity of a new water main and system of piping. Phil., 1822. 42 pp., il., 8 x 6, pap.
- 455 —Report of the Watering Committee; with the accompanying reports of Frederic Graff, Superintendent of Fairmount Water-Works, on filtration, and Professors Booth and Garrett on Schuylkill Water. Phil., 1854. 24 pp., 8 x 6, b. p.
- 889 —Report to the Hon. Samuel H. Ashbridge, Mayor of the City of Philadelphia, on the extension and improvement of the water supply of the City of Philadelphia. Rudolph Hering, J. M. Wilson and S. M. Gray. Phil., 1899. 123 + 1 pp., il., 17 pl., 9 x 6, pap.
- 361 —Reports on the Philadelphia water supply, made Oct., 1882, and Apr., 1883, by the Board of Experts, appointed June, 1882. J. V. Merrick, E. S. Chesbrough, Frederic Graff and William Ludlow. Phil., 1883. 54 pp., tab., 9 x 6, pap.
- 359 —Results of examinations of water from the River Schuylkill; communicated by request, to W. H. McFadden. C. M. Cresson. Phil., 1875. 16 pp., tab., 9 x 6, pap.
- 693 —Specifications for a twenty million-gallon pumping engine to be erected in the engine house of the Spring Garden Pumping Station. 7 pp., il., 11 x 7, pap. no title-page.
- 639 —Specifications for engine house, boiler house and stack for the Roxborough Water-Works. Phil., 1866. 12 pp., pl., 9 x 6, pap.
- 850 —Specifications for the Philadelphia Water-Works; Sept., 1895, to Jan., '96; Nos. 1-5, 7, 9-12, 14. Phil., 1895-96. 11 v., 14 x 9, pap.
- Topographical map of Philadelphia, showing water mains and street grades. 1877. (See Qf-65.)
- 481 —Water supply and filtration. Phil., 1897. 116 pp., 9 x 6, pap.
- 455 —The water supply of our great cities. no place, 1866 (?) 24 pp., map, 9 x 6, b. p. no title-page.
- 358 —Water supply of Philadelphia. C. M. Cresson and A. R. Leeds. Phil., 1887. 16 pp., 9 x 6, pap.
- The water which is supplied to Philadelphia. John Birkinbine. 1887. (See Yj-34, p. 14.)
- 551 —Water-Works of Philadelphia. Francis LeClere, pub. no place, 1897. 13 pl., 9 x 15, cl.
- 126 PHOENIXVILLE, PA. Annual report of the Water Department; 1881. Phoenixville, 1881. 1 v., 7 x 5, pap.
- 127 PIQUA, OHIO. Annual report of the Trustees of the Water-Works to the City Council; 1st; 1876. Piqua, 1876. 1 v., 9 x 6, pap.
- 128 PITTSBURG, PA. Annual report of the Superintendent of the Water-Works; 1874, '76-79. Pittsburg, 1875-80. 5 v., 9 x 6, pap.
- 286 —Pittsburg Water-Works: Map showing the location of the Hiland Avenue and Brilliant Hill Reservoirs, and the pumping works. Emile Low. no place, no date. sheet, 30 x 21, cl.



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- 288 —Report of the Board of Examiners and Hydraulic Engineers; with estimates of cost of work. Pittsburg, 1871. 53 + 1 pp., 9 x 6, pap.
- 296 —Report of the Filtration Commission. no place, 1899. 10 + 393 pp., 21 pl., 9 x 6, cl.
- 289 —Report on the new water-works of the City of Pittsburg. W. M. Roberts. Pittsburg, 1874. 56 pp., 9 x 6, pap.
- 795 —Specifications for two graduating-plunger pumping engines for Pittsburg Water-Works. no place, 1872. 26 pp., 11 x 9, pap.
- 621 —Test of a Nordberg pumping engine in the pumping station of the Pennsylvania Water Co., at Wildwood Station, Pittsburg, Pa. R. C. Carpenter. no place, 1899. sheet, 19 x 19, pap.
- PITTSFIELD, MASS.** Annual report of the Water Commissioners; 1876. (See Dc-190, p. 417.)
- 283 —Report of the Water Commissioners, made to the Pittsfield Fire District, with memoranda, etc.; 1857. Pittsfield, 1857. 19 pp., 9 x 6, pap.
- Reports of the Water Commissioners. (See Op30-2.1.)
- 435 —Reports of the Water Commissioners, Prudential Committee and Commissioners of Main District, etc., of the Pittsfield Fire District. Pittsfield, 1868. 1 v., 9 x 5, b. p.
- 324 **PLAINFIELD, N. J.** Engineers' report and survey of the City of Plainfield, N. J., for the introduction of water-works and sewage disposal. C. P. Bassett. Plainfield, 1887. 13 pp., 9 x 6, pap.
- 959 **PLYMOUTH, MASS.** Annual report of the Water Commissioners, submitted to the Town Meeting; Mar., 1880. Plymouth, 1880. 1 v., 9 x 6, pap.
- Annual reports of the Town Officers. (See Op35-2.1.)
- 423 —Report of the Commissioners elected to cause water to be brought from South Pond into the Village of Plymouth. Plymouth, 1856. 48 pp., 8 x 5, b. p.
- 183 —Reports of the Water Commissioners, upon the condition of the water-works. no place, 1875. pp. 29-48, 9 x 6, b. p. no title-page.
- 718 **PONTIAC, MICH.** Water supply of Pontiac. Aaron Perry. 13 pp., 10 x 6, pap. no title-page.
- 129 **PORT HURON, MICH.** Annual report of the Board of Water Commissioners; 6th, 9th; 1879, '82. Port Huron, 1879-82. 2 v., 9 x 6, pap.
- 190 —Charter of the Board of Public Works of the City of Port Huron; also, the by-laws, rules and regulations and tariff of water rates adopted by the Commissioners. Port Huron, 1873. 31 pp., 9 x 6, b. p.
- 848 **PORT LEYDEN, N. Y.** Quantities, specifications, proposal, contract and bond for Port Leyden Water-Works. Port Leyden, 1897. 10 pp., 14 x 8, pap.
- 405 **PORT RICHMOND, N. Y.** Report of the Health Committee of the Richmond County Good Government Club, on the water supply of New Brighton and Port Richmond. no place, 1895. 23 pp., 9 x 6, pap. no title-page.
- 130 **PORTLAND, ME.** Water supply, rates, rules and regulations, with a sketch of its history, charter, etc., by the Portland Water Co. Portland, 1881. 55 pp., 9 x 6, pap.
- 680 **PORTLAND, ORE.** Abstract of proposals to the Water Committee of the City of Portland, Ore. sheet, 18 x 13, pap. no title-page.
- 545 —Report on the Water Committee of the City of Portland, by the Committee on Other Commissions, to the Committee of One Hundred. Portland, 1894. 44 pp., 9 x 6, pap.
- 745 —Specifications for a line of submerged pipe across the Willamette River, Portland, Ore. no place, 1893. 5 pp., 14 x 8, pap.
- 643 —Specifications of works for the water supply of the City of Portland, Ore. Portland, 1893. 75 pp., 9 x 6, pap.
- PORTSMOUTH, ENG.** Report to the General Board of Health, on a further inquiry into the sewerage, drainage and supply of water, and the sanitary condition of the inhabitants of the Parish of Portsmouth. Robert Rawlinson. 1851. (See Ec-28, p. 513.)
- Report to the General Board of Health, on a preliminary inquiry into the sewerage, drainage and supply of water, and the sanitary condition of the inhabitants of the Borough of Portsmouth in the County of Hampshire. Robert Rawlinson. 1850. (See Ec-28, p. 50.)
- POUGHKEEPSIE, N. Y.** Act to provide for a supply of water in the City of Poughkeepsie, and for sewers therein, as amended by Chapter 158 of the Laws of 1870. 1871. (See Dc-132, v. 2, p. 1.)
- 132 —Annual report of the Water Commissioners to the Common Council; 2d-9th, 11th-15th; 1870-77, '79-83. Poughkeepsie, 1871-84. 13 v. in 6, 9 x 6, pap.
- 469 —Same; 1st; 1869. 1 v., 9 x 6, b. p.
- Annual reports of the several departments of the City Government. (See Op50-2.1.)

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- 132 —Contract and specifications for the improvement of Lent's Pond. no place, 1871, 21 pp., 9 x 6, b. p.
- 469 —Report, to the Board of Water Commissioners, of J. B. G. Rand, Chief Engineer; 1st; 1870. Poughkeepsie, 1870. 1 v., 9 x 6, b. p.
- 131 —Rules and regulations in relation to water and sewers. Poughkeepsie, 1877. 16 pp., 8 x 5, pap.
- 423 —Statement of the Water Committee, on the supply of the City of Poughkeepsie with water. Note; Contains report on the water supply by William McCammon. Poughkeepsie, 1855. 277 pp., 8 x 5, b. p.
- 636 **PRINCETON, N. J.** Contracts of the Princeton Water Co. Note: Specifications for construction of well and engine house, boiler house, etc. no place, 1883. 10 + 10 pp., 9 x 6, pap.
- 135 **PROVIDENCE, R. I.** Annual report of the Board of Water Commissioners; 2d-4th; 1878-80. Providence, 1878-80. 3 v., 9 x 6, pap.  
—Annual reports of the City Engineer. (See Op55-2.1.)
- 402 —Communication, in review of reports of the Water Commissioners and the Chief Engineer of the Water-Works, upon the pumping engine at the Hope Station. G. H. Corliss. Providence, 1873. 9 pp., 9 x 6, pap.
- 183 —Communication, in review of the communication from Geo. H. Corliss, upon the pumping engine at Hope Station. J. H. Shedd. (City doc. No. 38.) Providence, 1873. 9 pp., 9 x 6, b. p.
- 876 —Contract; and report upon the pumping engine at Hope Station. Providence Steam Engine Co. N. Y., 1876. 27 pp., 9 x 6, b. p.
- 762 —Contract and specifications for cast-iron water pipes and special castings. no place, 1870, '8-. 2 v., 10 x 7, pap.
- 946 —Contract and specifications for Cornish pumping engine. no place, 1873. 29 pp., 10 x 8, pap.
- 947 —Contract and specifications for Hope Reservoir. no place, 1873. 52 pp., 11 x 8, pap.
- 945 —Contract and specifications for laying water pipe. no place, 1870. 55 pp., 11 x 8, pap.
- 948 —Contract and specifications for Sockanosset Reservoir. no place, 1870. 51 pp., 11 x 8, pap.
- 400 —General description of the Providence Water-Works, by the City Engineer. Providence, 1882. 11 pp., 8 x 5, pap. no title-page.
- 183 —Laws of the General Assembly of Rhode Island, relating to the supplying of the City of Providence with pure water. (City doc. No. 14c.) no place, 1866. 8 pp., 9 x 6, b. p. no title-page.
- 426 —Message relating to the efficiency of the Fire Department and the fire hydrants; with communications from the Chief Engineer of the Fire Department, the Water Commissioners and the Chief Engineer of the Water-Works, Dec. 21st, 1872. (City doc. No. 51.) Providence, 1873. 15 pp., 9 x 6, pap.
- 178 —The Nagle pumping engine. Providence Steam Engine Co. Note: Description and test of the high-service pumping engine of the Providence Water-Works. N. Y., 1876. 18 pp., pl., 9 x 6, pap.
- 708 —Notes on the water meter system of Providence, R. I., from 1872 to 1887, inclusive. E. B. Weston. 8 pp., 9 x 6, pap. no title-page.
- 576 —Official reports of the duty trials of the Providence high-service pumping engines and the contracts under which the engines were constructed. N. Y., 1876. 27 pp., 9 x 6, pap.
- 133 —Providence Water-Works: Loss of head affecting fire-streams. J. H. Shedd. no place, 1877. 11 pp., 9 x 6, pap. no title page.  
—Quarterly reports of the Board of Public Works. (See Op55-3.1.)
- 136 —Quarterly reports of the Board of Water Commissioners; 1870-76, Mar. '77, Nov. '80. Providence, 1870-81. 30 v., 9 x 6, pap.
- 483 —Report of a Committee of the City Council, appointed to examine the sources of water supply for the city. Providence, 1868. 100 pp., map, 9 x 5, b. p.
- 876 —Report of Committee to test the Corliss and Worthington pumping engines at Hope Station. N. Y., 1874. 12 pp., 9 x 6, b. p. no title-page.
- 425 —Report of the Board of Aldermen, on the water-works and sewers in the City of Providence, Nov. 2d, 1874. (City doc. No. 118.) Providence, 1874. 41 pp., 9 x 6, pap.
- 232 —Report of the Board of Public Works, upon the pumping engine at Pettaconset Station: erected by George H. Corliss. (City doc. No. 19.) Providence, 1882. 10 pp., 9 x 6, pap.
- 308 —Report of the Board of Water Commissioners in relation to contracts with James Macdonald & Co., for Sockanosset Reservoir. (City doc. No. 57.) Providence, 1872. 7 pp., 9 x 6, pap.

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- 134 — Report of the Chief Engineer of the Board of Water Commissioners; 1871. Providence, 1871. 1 v., 9 x 6, pap.
- 461 — Report of the Committee on the Supply of Water; presented to the City Council—Sept. 22d, 1856. Providence, 1856. 40 pp., map, 9 x 6, b. p.
- 231 — Report of the results obtained with experimental filters at the Pettaconset Pumping Station of the Providence Water-Works. E. B. Weston. Providence, 1896. 182 pp., 9 x 6, pap.
- 183 — Report of the Water Commissioners and George H. Corliss, relative to pumping engines for the Water-Works. (City doc. No. 35.) Providence, 1873. 28 pp., 9 x 6, b. p.
- 424 — Report upon the pumping engine at Hope Station, erected by the Providence Steam Engine Co., Jan. 3d, 1876. Charles Herman, J. B. Francis and Channing Whitaker. (City doc. No. 5.) Providence, 1876. 13 pp., 9 x 6, pap.
- 183 — Special report of the Water Commissioners in relation to foundations, buildings and plans for pumping engines at Pettaconset Station. (City doc. No. 39.) Providence, 1873. 4 pp., 9 x 6, b. p.
- 307 — Water-Works of the City of Providence. William Aspinwall. Providence, 1874. 16 pp., 9 x 6, pap.
- QUEBEC, QUE.** Annual reports of the City Surveyor and Water-Works Engineer. (See Oq4-3.1.)
- 233 — Report of C. Baillairge, Engineer of the City of Quebec, on the amelioration of its aqueduct. Quebec, 1881. 48 + 34 pp., 9 x 6, pap.
- 494 — Report on supplying the City of Quebec with pure water; made for the City Council, by order of George Okill Stuart, Mayor of Quebec. G. R. Baldwin. Bost., 1848. 92 pp., maps, tab., 9 x 6, b. p.
- QUEENSLAND.** Annual report of the Hydraulic Engineer of the Water Supply Department; 6th-7th, 11th-15th; 1890-91, '95-99. 1890-99. (See De-1.)
- QUINCY, ILL.** Mayor's message and reports of City Officers. (See Oq9-2.1.)
- 276 — Water-Works case: Full text of the decision of the Supreme Court recently rendered regarding the laying of water pipes in the streets of the city: The decision in favor of the Water Co. no place, 1883. 10 pp., 8 x 6, pap.
- 190 **RAHWAY, N. J.** Act of incorporation, rules of order and report of Engineer, to the Board of Water Commissioners. Rahway, 1871. 20 pp., 9 x 6, b. p.
- READING, PA.** Municipal reports of the City of Reading. (See Or5-2.1.)
- 811 **RED BANK, N. J.** Specifications for water-works. no place, 1844. 16 pp., 14 x 9, pap. no title-page.
- 824 **RED OAK, IA.** Specifications for water-works at Red Oak, Ia. no place, 1894. various pagings, 9 x 5, pap. no title-page.
- 137 **RICHFIELD SPRINGS, N. Y.** Report made to the Board of Water Commissioners of the Village of Richfield Springs upon the water supply, Jan., 1879. P. H. Baermann. Troy, 1879. 24 pp., 9 x 6, pap.
- 253 **RICHMOND, IND.** Report of plan and estimates for proposed system of water-works for Richmond, Ind. F. C. Doran. Richmond, 1881. 42 pp., 9 x 6, pap.
- 222 **RICHMOND, VA.** Annual report of the City Engineer; 2d; 1875. Richmond, 1875. 1 v., 9 x 6, b. p.
- 222 — Annual report of the Committee on Water, with accompanying documents; 1871-74. Richmond, 1872-75. 4 v., 9 x 6, b. p.
- 222 — Detailed report of the City Engineer, relative to the new reservoir, embracing all expenditures from Feb. 9th, 1874, to Apr. 4th, 1875. Richmond, 1875. 46 pp., 9 x 6, b. p.
- 913 — Proposals, contract and specifications, by the Water Committee for hydraulic machinery. no place, 1880. 26 pp., 10 x 8, pap.
- 222 — Report of the City Engineer to the Committee on Water, of the City of Richmond; made Dec., 1874. Richmond. 1874. 13 pp., 9 x 6, b. p.
- 222 — Report of the Committee on Water-Works to the Common Council, on the condition of the water-works, and capacity and capability of the machinery. Richmond, 1876. 32 pp., 9 x 6, b. p. no title-page.
- 349 — Report on the mode of supplying Church Hill with water, and on the extension of the works. J. J. Heindl. Richmond, 1871. 21 pp., 9 x 6, pap.
- 443 **ROCHESTER, N. Y.** Act of incorporation and reports of the Rochester Water-Works Co. N. Y., 1870. 39 pp., map, 8 x 5, b. p.
- 331 — Annual report of the Board of Water Commissioners to the Common Council; 1st-2d; 1873-74. Rochester, 1874-75. 2 v., il., pl., 9 x 6, pap.
- Annual reports of the Executive Board, in charge of the Water-Works, Fire and Highway Departments. (See Or15-2.1.)
- 434 — Engineers' report for supplying the City of Rochester with water from various sources; made to the Directors of the Rochester Water-Works Co. C. B. Stuart and Daniel Marsh. N. Y., 1853. 49 pp., 9 x 6, b. p.



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- 472 —In the matter of the application of the City of Rochester to acquire the permanent and perpetual right to draw from Hemlock and Canadice Lakes an amount of water sufficient for the use of said city and its inhabitants, not exceeding nine millions of gallons per day. no place, 1884 (?) 2 v., 1301 pp., pl., maps, tab., 10 x 7, sh.
- 333 —Laws relating to the construction of Water-Works for the City of Rochester. N. Y. New York-Legislature. Rochester, 1875. 23 pp., 7 x 5, pap.  
—The new conduit of the Rochester Water-Works. Emil Kuichling. 1896. (See Or15-2.1. Annual report, 1894-95, p. 307.)
- 522 —On *volvex globator* as the cause of the fishy taste and odor of the Hemlock Lake water, in 1888. M. L. Mallory, G. W. Rafter and J. E. Line. no place, 1888. 10 pp., 2 pl., 9 x 6, pap.
- 332 —Report of the Board of Water Commissioners to the Mayor. Nov. 15th, 1872. Note: Report on a water supply for the City of Rochester. Rochester, 1872. 100 pp., 9 x 6, pap.
- 335 —Report on the introduction of a supply of pure water into the City of Rochester; made to the Mayor and Common Council, Sept., 1860. Daniel Marsh. Rochester, 1860. 71 pp., 9 x 6, pap.  
—The Rochester crime against hydraulic engineering. Clemens Herschel. 1897. (See Dc-243, p. 13.)
- 678 —Specifications for cast-iron distribution pipes, with their branches, etc. no place, 1876. sheet, 14 x 9, pap. no title-page.
- 677 —Specifications governing the excavation and refilling of trenches for water pipes, and the laying of such pipes in the City of Rochester, N. Y. no place, 1876. unpagcd, 14 x 9, pap. no title-page.
- 138 **ROCK ISLAND, ILL.** Annual report of the Committee on Water-Works; 1877. Rock Island, 1877. 1 v., 9 x 6, pap.
- ROCKFORD, ILL.** Annual reports of the City Officers. (See Or20-3.1.)  
—Report of the Committee on Water-Works. 1875. (See Or20-2.1, Financial statement of the City Clerk for 1875, p. 8.)
- 524 —Report on an additional water supply for the City of Rockford, Ill., Nov. 25th, 1891. J. T. Fanning, D. C. Dunlap and D. W. Mead. Rockford, 1891. 29 + 7 pp., pl., 9 x 6, pap.
- 519 **ROME, ITALY.** Frontinus, and his II books on the water supply of the City of Rome, A. D. 97. Clemens Herschel. Ithaca, 1894. 40 pp., 9 x 6, pap.
- 553 —Les travaux souterrains de Paris. Contents: Pt. 1, wanting; Pt. 2, Les eaux; Introduction; Les aqueducs Romains. Paris, 1875. 2 v., il., 8 pl., 11 x 7, ½ ro.
- 868 **ROTHERHAM-CUM-KIMBERWORTH, ENG.** Scheme for the supply of water to the Towns of Sheffield, Rotherham-cum-Kimberworth, and Doncaster, with provision for the future supply of Chesterfield, etc., from the sources of the River Derwent, and the gathering grounds of the Derbyshire Peak M. B. Jackson. Lond., 1866. 39 pp., 9 x 6, pap.
- ROTTERDAM, NETHERLANDS.** Short account of the water-works of Amsterdam, Rotterdam and the Hague. L. C. van Kerkwyck. 1876. (See Cb-214, p. 198.)
- 139 **SACRAMENTO, CAL.** Report on expense of machinery, pipe, etc., on introduction of Holly Water-Works; also, report of Superintendent of Water-Works, on the amount and condition of water pipe in the City of Sacramento. Sacramento, 1873. 31 pp., 9 x 6, pap.
- 906 **ST. ALBANS, VT.** Contract No. 1: Water pipes and appendages. St. Albans Aqueduct Co. St. Albans, 1872. 35 pp., 10 x 8, pap.
- 673 **ST. BERNARD, OHIO.** Contract and specifications for furnishing and erecting pumping machinery. no place, 1894. unpagcd, 14 x 9, pap.
- 263 **ST. CATHERINES, ONT.** Annual Report of the Water-Works Commission to the City Council; 1st; 1879. St. Catherines, 1880. 1 v., 9 x 6, pap.
- 262 —Report on a water supply for the Town of St. Catherines. Thomas Monro. St. Catherines, 1875. 20 pp., 9 x 6, pap.
- 258 —Rules and regulations for the management of the Service Department of the Water-Works; together with rules for plumbers and tariff of water rates, adopted Feb. 19th, 1878. St. Catherines, 1878. 18 pp., 6 x 5, pap.
- SAINT-ETIENNE, FRANCE.** The Dam of Rochetaillée, on the Furens River. G. W. Rafter. 1897. (See Dc-967, p. 4.)
- 752 —Ville de Saint-Étienne: Étude sur les eaux d'alimentation. Fleury et A. Clermont. Saint-Étienne, 1892. 25 pp., pl., 12 x 10, pap.
- 252 **ST. JOHN, N. B.** Annual accounts and statements of the Sewerage and Water Supply Commission, with Superintendent's and Auditor's reports; 1883-88. St. John, 1884-89. 6 v., 8 x 6, pap.
- 142 —Annual report of the Sewerage and Water Supply Commissioners; 1st-3d, 10th, 12th, 14th-16th, 23d; 1856-58, '65, '67, '69-71, '78. St. John, 1857-79. 9 v., 8 x 5, pap.

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- 140 —Provisional report of the Sewerage and Water Supply Commission on the Sewerage and Water Extension of 1876. St. John, 1877. 16 pp., 8 x 5, pap.
- 141 —Reports of the Superintendent of Water-Works, for the years 1860-62. St. John, no date. 1 v., 8 x 5, pap.
- 452 —Review of the report of Hurd Peters, City Engineer, on the water supply of the Cities of St. John and Portland; by the Superintendent. St. John, 1884. 54 pp., pl., 9 x 6, pap.
- 313 —Special report of the Sewerage and Water Supply Commission on the formation of anchor ice; by the Superintendent. St. John, 1881. 30 pp., 5 pl., 9 x 6, pap.
- 285 —Special report of the Sewerage and Water Supply Commission on the water supply of St. John and Portland. St. John, 1882. 15 pp., 9 x 6, pap.
- 427 —Superintendent and Engineer's report: Sewerage and Water Supply Commission; 34th-43d; 1889-98. St. John, 1890-99. 9 v., 9 x 6, pap.
- ST. JOHNSBURY, VT.** Reports of the Trustees, Chief Engineer of the Fire Department and Superintendent of Water-Works. (See Os20-21.)
- 470 **ST. LOUIS, MO.** Act to enable the City of St. Louis to procure a supply of wholesome water, approved Mar. 13th, 1867; and amendatory acts, approved March 23d and 24th, 1868. St. Louis, 1870. 19 pp., 9 x 6, b. p.
- 470 —Annual report of the Board of Water Commissioners; 1870, '76. St. Louis, 1870-76. 2 v., 9 x 6, b. p.
- 354 —Annual report of the Water Commissioner; 1893-95. St. Louis, 1893-95. 3 v., 10 x 7, pap.
- 204 —General and detail drawings of High-service Engine No. 5, by the Water Commissioner. St. Louis, 1886. 96 pl., 15 x 23,  $\frac{3}{4}$  ro.
- Messages of the Mayor, with accompanying reports. (See Os30-31.)
- 994 —Proposal, etc., to coal dealers, for coal for water-works. no place, no date. 5 pp., 14 x 8, pap. no title-page.
- 875 —Proposals and specifications for pumping engines, water pipes, etc., for the St. Louis Water-Works, 1867-1868. unpagd, pl., 9 x 14,  $\frac{3}{4}$  ro. no title-page.
- 340 —Report of the Board of Public Improvements, on proposed extension of the St. Louis Water-Works, St. Louis, 1885. 7 pp., maps, tab., 9 x 6, pap.
- 470 —Report of the Board of Water Commissioners; 1st-3d. St. Louis, 1865-66. 2 v., 9 x 6, b. p.
- 453 —Report of the Committee on Water-Works, on plan for new water-works, submitted to the Common Council, Oct., 1865. St. Louis, 1866. 34 pp., 9 x 6, b. p.
- Report of the Special Committee on Water-Works, presented to the Common Council, Feb. 26th, 1861; submitting plans for new water-works, with estimates of cost and statistical information thereto. St. Louis, no date. 37 pp., 9 x 6, b. p. Os30-31, v. 1, p. 49.
- 144 —Semi-annual report of the Board of Water Commissioners; Oct., 1866-May, '67, Nov., '75. St. Louis, 1866-75. 3 v., 9 x 6, pap.
- 470 —Same; Oct., 1866-Nov., '69, Nov., '70-Nov., '75. 18 v., 9 x 6, b. p.
- 143 —Semi-annual reports of the Chief Engineer and Superintendent of the Water-Works; 1876-77. St. Louis, 1878. 1 v., 9 x 6, pap.
- 970 —Specifications, etc., for building conduits, clear well, high-service engine foundations, etc. no place, 1868. 18 pp., 14 x 8, pap. no title-page.
- 995 —Specifications, etc., for building storage reservoirs for St. Louis Water-Works. no place, 1867. unpagd, 14 x 8, pap. no title-page.
- 969 —Specifications, etc., for furnishing and laying water pipes in the City of St. Louis. no place, 1868-75. various pagings, 14 x 8, pap. no title-page.
- 998 —Specifications, etc., for furnishing fire plugs. no place, no date. 3 pp., 14 x 8, pap. no title-page.
- 997 —Specifications, etc., for furnishing stop valves. no place, no date. 4 pp., 14 x 8, pap. no title-page.
- 996 —Specifications, etc., for work for high and low-service buildings for the St. Louis Water-Works. no place, 1869. 19 + 18 pp., 14 x 8, pap. no title-page.
- 741 —Specifications for Standpipe No. 3, St. Louis Water-Works. 32 pp., 14 x 9, pap. no title-page.
- 235 **ST. PAUL, MINN.** Annual report of the Board of Water Commissioners; 4th, 11th-18th; 1885, '92-99. St. Paul, 1893-1900. 9 v., 9 x 6, pap.
- 740 —Contract and specifications for distributing reservoir. St. Paul, 1887. 44 pp., 9 x 7, pap.
- 386 —Report of the Water Commission, on plans for the water supply of St. Paul, Minn.; made to the Common Council of the city. St. Paul, 1882. 4 + 29 pp., 9 x 6, pap.
- 688 —Specifications for a pumping engine at McCarron Lake. no place, 1897. 9 pp., il., 13 x 8, pap. no title-page.

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- 512 **SALEM, MASS.** Account of the proceedings upon the transfer of the Salem Water-Works to the City authorities, Nov. 16th, 1839; and the addresses of W. P. Phillips, Chairman of the Commissioners, and William Cogswell, Mayor of the City. Salem, 1869. 161 pp., 9 x 6, bds.
- 513 — Annual report of the Wenham Water Board to the City Council; 1st-15th; 1869-83. Salem, 1870-84. 15 v., 9 x 6, pap.
- 511 — Communication to the City Council regarding the power of the Water Commissioners to spend funds not yet appropriated by the Council. Salem, 1865. 8 pp., 9 x 6, b. p. no title-page.
- 511 — Debate of the Salem Aqueduct Meeting, on the water question, at Mechanic Hall, Jan. 4th, 1868: Extracts from speeches of Hon. W. D. Northend and W. C. Endicott; and the reply of Willard P. Phillips. Note: Meeting called to protest against the management of the Wenham Water Board. Salem, 1868. 12 pp., 9 x 6, b. p.
- 511 — Ordinance to regulate the proceedings of the Commissioners for supplying the City of Salem with pure water. Salem, 1865. 6 pp., 9 x 6, b. p. no title-page.
- 511 — Programme for the Aqueduct Meeting at Mechanic Hall, Jan. 4th, 1868, and other matters. Note: Satirical account of a proposed meeting, which ridicules the purchase by the City of Salem of the Salem and Danvers Aqueduct. no place, no date. 7 pp., 9 x 6, b. p.
- 511 — Quarterly report of the Joint Standing Committee on Water-Works; 1st; 1865. Salem, 1865. 1 v., 9 x 6, b. p. no title-page.
- 511 — Report of the Aqueduct Meeting at Mechanic Hall, Dec. 22d. 1865. Note: Opposes the purchase of the Salem and Danvers Aqueduct. no place, no date. 8 pp., 9 x 6, b. p.
- 511 — Report of the Committee of "Four from each ward," appointed by the Salem Water Supply Mass-meeting to lay before the community, information bearing on the water question. Note: Opposes the purchase of the Salem and Danvers Aqueduct. Salem, 1865. 4 pp., 9 x 6, b. p. no title-page.
- 511 — Report of the Joint Special Committee on Supply of Water. Salem, 1864. 8 pp., 9 x 6, b. p.
- 511 — Report of the proceedings in the Supreme Judicial Court upon the petition of Caleb Foote and others for an injunction against the City of Salem. Salem, 1866. 45 pp., 9 x 6, b. p.
- 511 — Report of the Water Committee, 1863; together with the Act of the Legislature, approved May 13th, 1864. "For supplying the City of Salem with pure water." Salem, 1864. 28 pp., 9 x 6, b. p.
- Semi-annual report of the Water Commissioners to the City Council; 1st-9th; 1865-69. (See Dc-511, p. 157, and Dc-509, p. 373.)
- 510 — Thickness of water-pipes measured for the Salem Water Commissioners. J. A. Haskell and others. Salem, 1868. 16 pp., 9 x 6, b. p. no title page.
- 510 — Weight of water-pipes weighed for the Salem Water Commissioners. W. A. Hall. Bost., no date. 15 pp., 9 x 6, b. p.
- 511 — Wenham Water-Works; Statements, cost of works thus far; progress of works; deficiency in iron pipe, etc. W. P. Phillips, anon. no place, no date. 20 pp., 9 x 6, b. p.
- SALT LAKE CITY, UTAH.** Annual message of the Mayor with the annual reports of the officers of Salt Lake City. (See Os50-3.1.)
- 146 — Application for a water supply, made to the City Council of Salt Lake City, Oct. 21st, 1884; together with the report of Charles L. Stevenson, as to practicable methods for obtaining such a water supply. Edward Osborne and others. Salt Lake City, 1885. 37 pp., 9 x 6, pap.
- 918 — Contract and specifications for earth and rock work for constructing masonry conduit and appurtenances from Parley's and Emigration Creeks to Salt Lake City. no place, 1890. 12 pp., 14 x 8, pap. no title-page.
- 919 — Contract and specifications for furnishing and laying wrought-iron riveted pipe from Emigration Creek to junction of conduit line from Parley's Creek. no place, 1890. 2 pp., 14 x 8, pap. no title-page.
- 842 **SAN BERNARDINO, CAL.** Specifications for water-works for the City of San Bernardino. Cal. Note: Pt. I, Pipe, fittings, and laying of conduit. Pt. II, Trenching, laying of pipes and backfilling. no place, 1890. 2 v., 14 x 8, pap.
- 835 **SAN FRANCISCO, CAL.** Crystal Springs Dam, constructed for the Spring Valley Works. no place, 1890. sheet, 18 x 27, pap.
- Map of San Francisco, Cal., showing the water service of Spring Valley Water-Works, distributing reservoirs, districts supplied by each, and location of principal distributing mains: contour lines showing elevation above tide water, and fire department and fire patrol buildings; with plates and drawings illustrating the Spring Valley Water-Works. Dakin Publishing Co. 1895. (See Qf-178.)
- 298 — Memoir on the water supply of the City of San Francisco. W. J. McAlpine. no place, 1879. 18 pp., 9 x 6, pap.



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- Municipal reports. (See Os55-2.1.)
- 477 —Proceedings of the Board of Supervisors; and reports of engineer in the matter of furnishing water supplies for the City and County of San Francisco. no place, 1875. 115 pp., maps, 9 x 6, cl.
- 147 —Regulation of water rates: Proceedings before the Board of Supervisors. San Fran., 1880. 93 pp., 9 x 6, pap.
- 547 —Report on the various projects for the water supply of San Francisco, Cal., made to the Board of Water Commissioners, by G. H. Mendell, Engineer. San Fran., 1877. 9 + 223 pp., pl., maps, tab., 9 x 6, pap.
- 148 **SANDUSKY, OHIO.** Annual report of the Trustees of the Water-Works; 1st-8th; 1876-83. Sandusky, 1877-84. 8 v., 9 x 6, pap.
- SANTOS, BRAZIL.** Sanitary improvements for the City and Port of Santos, Brazil. E. A. Fuertes, Rudolph Hering and J. H. Fuertes. 1894. (See Ec-13.)
- Specifications for water-works at Santos, Brazil, by E. A. Fuertes, Rudolph Hering and J. H. Fuertes. 1894. (See Ec-13, p. 197.)
- 149 **SARATOGA SPRINGS, N. Y.** Annual report of the Water Commissioners; 7th; 1879. Saratoga Springs, 1879. 1 v., 9 x 6, pap.
- Charter and by-laws of the Village; together with the Water Law and By-laws. 1872. (See Os58-1.1.)
- 279 —Report of the trial of the Gaskill pumping engine at Saratoga Springs, N. Y., June, 1883. C. T. Porter. no place, 1883. 40 pp., il., pl., 9 x 6, pap.
- 150 **SARNIA, ONT.** By-law No. 169, to regulate the working and management of the water-works, and for other purposes; as amended Apr. 9th, 1877. Sarnia, 1877. 8 pp., 9 x 6, pap.
- 813 **SAULT STE. MARIE, MICH.** Specifications for water-tower and the Sault Ste. Marie, Water-Works. no place, 1893. unpagcd, 13 x 8, pap.
- 799 —Specifications for water-works. Sault Ste. Marie, 1885. 6 pp., 11 x 8, pap.
- 961 **SCHENECTADY, N. Y.** Biological examination of Mohawk River at Schenectady, N. Y. C. C. Brown. no place, 1893. 7 pp., 9 x 6, pap.
- 733 —Contract and specifications for tank for Schenectady Water-Works. Schenectady, 1895. 14 pp., 10 x 7, pap.
- 435 —Report to the Water Commissioners of the City of Schenectady, 1867. W. J. McAlpine. Schenectady, 1868. 16 pp., 8 x 5, b. p.
- 915 —Specifications for pumping engine, etc., reference being had to plans. no place, no date. 7 pp., 10 x 8, pap. no title-page.
- 917 —Specifications for the pump, main and distributing pipes, water gates, hydrants, etc., reference being had to plans. no place, no date. 10 pp., 10 x 8, pap. no title-page.
- 916 —Specifications of the distributing reservoir, reference being had to plans. no place, no date. 7 pp., 10 x 8, pap. no title-page.
- 914 —Specifications of the engine house, boiler house, pump well, chimney, dam at Veeder's Creek and conduit leading to pump well, reference being had to plans. no place, no date. 11 pp., 10 x 8, pap. no title-page.
- 984 **SCRANTON, PA.** Plan, elevation and section of new dam. Scranton Gas and Water Co. Scranton, 1873. pl., 15 x 23, pap.
- SEATTLE, WASH.** Municipal reports. (See Os65-2.1.)
- 719 —Report on water-works for the City of Seattle, Wash., to the Mayor and City Council; by Benezette Williams, Chief Engineer of the Water Department. Seattle, 1890. 35 + 4 pp., 8 x 5, pap.
- 151 **SEWICKLEY, PA.** Annual report of the Commissioners of the Water-Works to the Borough Council; 1st, 4th; 1874, '77. Pittsburg, 1875-78. 2 v., 9 x 6, pap.
- 798 **SHARON SPRINGS, N. Y.** Water-works and sewers: Notices, specifications, etc. no place, 1897. unpagcd, 11 x 7, pap.
- SHEFFIELD, ENG.** Analysis of evidence given before the Sheffield Jury on the cause of the failure of the Bradfield Reservoir. William Naylor. Lond., 1864. 7 pp., 8 x 5, b. p. no title-page. Ec-20, p. 79.
- 546 —Complete history of the great flood at Sheffield on Mar. 11th and 12th, 1864; being a true and original narrative from authentic sources; Mr. Rawlinson's report to Government on the causes of the flood, etc. Samuel Harrison. Note: Account of the destruction of the Bradfield Reservoir. Lond., 1864. 8 + 160 pp., pl., 9 x 6, cl.
- 589 —Copies of the report of the engineers employed by the Sheffield Water-Works Co. to report on the Dale Dike and Agden Reservoirs, etc. no place, 1866. 38 pp., pl., 13 x 9, b. p. no title-page.
- 589 —Copy of the reports of the engineers employed by the Sheffield Water Co. and by the Corporation of Sheffield, to report on the bursting of the Dale Dike Reservoir; and of the reports of the Royal Engineers for the York District on the same subject, etc. no place, 1865. 22 pp., pl., 13 x 9, b. p.

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- Letter to Mr. Leather, the Consulting Engineer, in relation to the failure of the Bragfield Reservoir, after a minute inspection of the reservoir bank, Apr. 30th, 1864. William Naylor. no place, 1864. 5 pp., 9 x 6, b. p. no title-page. Cb-211, p. 275.
- Report from the Chairman, on inspection of the Sheffield embankment. John Gray. 1864. (See Dc-564, p. 85.)
- 216 —Report made to the Secretary of State for the Home Department, on the condition of the reservoirs belonging to the corporations of the Boroughs of Sheffield and Bradford, in the County of York. Robert Rawlinson. no place, 1864. 1 v., pl., map, 13 x 8, pap.
- 215 —Report on the failure and bursting of a reservoir embankment belonging to the Sheffield Waterworks Co., on the night of Friday, Mar. 11th, 1864. Robert Rawlinson and Nathaniel Beardmore. no place, 1864. 76 pp., pl., maps, 13 x 8, pap.
- 868 —Scheme for the supply of water to the Towns of Sheffield, Rotherham-cum-Kimberworth, and Doncaster, with provision for the future supply of Chesterfield, etc., from the sources of the River Derwent, and the gathering grounds of the Derbyshire Peak. M. B. Jackson. Lond., 1866. 39 pp., 9 x 6, pap.
- 184 **SIDNEY, OHIO.** Statement of the cost of the Sidney Water-Works, submitted to the Town Council, Feb. 3d, 1874. Sidney, 1874. 8 pp., 4 x 3, pap.
- 152 **SOMERVILLE, MASS.** Annual report of the Mystic Water Board; 1877. Note: Water supplied by the Boston Water-Works. Somerville, 1878. 1 v., 9 x 6, pap.
- 194 —Same; 1874. 1 v., 9 x 6, b. p.  
—Annual reports. (See Os75-2.1.)
- 463 —Contract of the Boston Mystic Water Board and Somerville Mystic Water Committee for a supply of Mystic Lake water, 1868. Charlestown, 1869. 7 pp., 9 x 6, b. p.
- 956 **SOUTH AUSTRALIA.** Report of the Department of Public Works; June, 1893–June, '95, June, '98. Adelaide, 1893–98. 4 v., pl., maps, 13 x 8, pap.
- 153 **SOUTH HADLEY FALLS, MASS.** Report of the Treasurer of the Board of Water Commissioners, Fire District No. 1; from May, 1872, to March, 1875. Holyoke, no date. unpagcd, 8 x 5, pap.
- 154 **SOUTH NORWALK, CONN.** Rules and regulations. South Norwalk, 1875. 20 pp., 7 x 5, pap.
- 541 **SOUTHINGTON, CONN.** Report of the Secretary and Engineer of the Southington Water Co., on the construction of the water-works. Southington, 1885. 28 + 2 pp., pl., map, 8 x 5, pap.
- 1017 **SPEZIA, ITALY.** Le sorgenti che alimentano l'acquedotto civico di Spezia e le possibili cause di diminuzione della loro portata. A(merigo) Raddi. Milano, 1891. 2 pp., pl., 10 x 7, pap.
- 156 **SPRINGFIELD, ILL.** Report of the Water-Works Commissioners; 8th–14th, 16th; 1873–80, '82. Springfield, 1874–82. 8 v., 9 x 6, pap., cl.
- 155 —Semi-annual report of the Board of Water Commissioners; Nov. 1869, '71. Springfield, 1869–71. 2 v., 9 x 6, pap.
- 406 **SPRINGFIELD, MASS.** Annual report of the Board of Water Commissioners to the City Council; 1st–9th, 12th; 1874–82, '85. Springfield, 1875–86. 10 v., il., 9 x 6, pap.
- 443 —Report of the Committee of the City Council; with accompanying reports of Clemens Herschel and S. Dana Hayes, with tables showing estimates, etc., for supplying the city with water. Springfield, 1872. 55 pp., 8 x 5, b. p.
- 407 —Report on a source of additional water supply for Springfield, Mass. Phinehas Ball. no place, 1874. 7 pp., 9 x 6, pap. no title-page.
- 418 —Report on chemical examinations of the water of the Ludlow Reservoir, Springfield, Mass. W. R. Nichols. no place, 1877. 5 pp., 9 x 6, pap. no title-page.
- 157 —Report on the examination of the water supply of Springfield, Mass. W. R. Nichols. no place, 1878. 12 pp., 9 x 6, pap. no title-page.
- 417 **SPRINGFIELD, OHIO.** Annual report of the Board of Water-Works to the City Council; 3d; 1883. Note: Contains laws relating to water-works and water rates. Springfield, 1883. 1 v., 9 x 6, pap.
- 261 **STRATFORD, ONT.** Report of the Directors of the Stratford Water Supply Co.; 2d; 1884. Stratford, 1885. 1 v., 8 x 5, pap.
- 849 **SUMMERVILLE, GA.** Specifications of water-works and sewerage for Summerville, Ga. Kansas City, 1897. 19 pp., 14 x 8, pap.
- 989 **SUPERIOR, WIS.** Analytical examination of water samples from West Superior, Wis. J. W. Hill. no place, 1898–99. 15 pp., 5 tab., 9 x 6, pap.
- 516 **SWANSEA, ENG.** Report on the supply of water to the Town of Swansea. Michael Scott. Lond., 1852. 116 pp., pl., map, tab., 10 x 7, cl.
- 353 **SYRACUSE, N. Y.** Annual report of the Water Board to the Mayor and Common Council; 7th–10th; 1896–99. Syracuse, 1896–99. 4 v., il., 9 x 6, pap.

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- 757 —Form of contract and specifications for rebuilding stone dam and other work at Skaneateles, N. Y. no place, 1892. 60 pp., 9 x 7, pap.
- 540 —How the water supply of the City of Syracuse, N. Y., has been kept free from an unpleasant taste. W. R. Hill. no place, 1899. 11 pp., pl., 9 x 6, pap.
- 635 —Proposal, contract and specifications for building a distributing reservoir. Syracuse City Water-Works Co. no place, 1878. 11 pp., 14 x 9, pap.
- 746 —Proposals for cast-iron water pipe. no place, 1892. unpagcd, 14 x 8, pap. no title-page.
- 238 —Report of the Commissioners on Water Supply, on sources of water supply for the City of Syracuse, Feb., 1889. Contents: Pt. 1, Report of the Commissioners. Pt. 2, Report of the Engineer, J. J. R. Croes. N. Y., 1899. 74 pp., pl. and maps in pocket, tab., 9 x 6, cl.
- 336 —Report of the Water Committee; also reports of J. J. R. Croes and A. W. Craven, on the subject of procuring a supply of water for the City of Syracuse from Tully Lake. Syracuse, 1871. 11 pp., 9 x 6, pap.
- 330 —Report on the extent of the first works to be constructed for supplying water to Syracuse, N. Y., from Skaneateles Lake. J. J. R. Croes. N. Y., 1890. 7 pp., 9 x 6, pap.
- 731 —Review of the plans and estimates of the Salmon River as a source of water supply, as reported by O. H. Bogardus to the Syracuse and Salmon River Water Co., Mar., 1888; and by J. J. R. Croes, as reported to the Syracuse Water Commission, Feb. 1st, 1889. Emil Kuichling. no place, no date. 18 pp., 9 x 6, pap.
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- 36 **FRANCIS, J. B.** Lowell hydraulic experiments; being a selection from experiments on hydraulic motors, on the flow of water over weirs, and in canals of uniform rectangular section and of short length; made at Lowell, Mass. Bost., 1855. 11 + 156 pp., 14 pl., 13 x 10, cl.
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- 10 —Instructions to intending bidders relative to certain work to be done for the company. no place, no date. unpagd, 14 x 8, pap.
- 11 —Specifications for power canal at Sault Ste. Marie, Mich., set 1st, 3d, 5th-8th, 10th. Sault Ste. Marie, 1893. 7 v., pl., 14 x 8, pap.
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# SANITATION.

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- 31 **MATTEUCCI, FELICE.** Sui criteri che debbono determinare scelta tra i diversi sistemi di bonificazione. Note: Improvement of swamp lands. no place, 1882. 18 pp., 9 x 6, pap.

**MITCHELL, HENRY.** On the reclamation of tide-lands, and its relation to navigation. no date. (See Ca-54.)

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**OGDEN, H. N.** Sewer design. 1899. (See Ec-128.)

**SHEDD, J. H.** Thorough drainage. 1859. (See P-30, p. 13.)

**WARING, G. E., Jr.** Mechanical appliances in town sewerage. 1886. (See Ec-78.)

—The separate system of sewerage: A reply to a paper published in the report of the State Board of Health, Lunacy and Charity, of the State of Massachusetts, 1880, by Eliot C. Clarke. 1882. (See Ec-49.)

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- HOBOKEN, N. J.** Report on a general sewerage plan for the City of Hoboken, N. J.; with report of Alphonse Fteley, Consulting Engineer. 1890. (See Ec-72.)
- HONOLULU, H. I.** Report to accompany plans for the sewerage and drainage of Honolulu, H. I. Rudolph Hering. 1897. (See Ec-145.)
- INDIANAPOLIS, IND.** Report upon a system of drainage and sewerage for the City of Indianapolis, Ind., June 14th, 1892. Rudolph Hering. 1893. (See Oi35-2.1, Annual report, 1892, p. 53.)
- 37 **IRELAND.** Report on drainage; 1st-4th, 16th-17th; 1843-46, 48-49. Great Britain-Board of Public Works in Ireland. Lond., no date. 6 v., 13 x 8, b. p.
- IRONTON, OHIO.** Report upon a system of sewerage for the City of Ironton, Ohio. Rudolph Hering. 1891. (See Ec-92.)
- ITALY.** Sulle bonificazioni idrauliche Italiane. Ministero dei Lavori Pubblici. 1878. (See Ca-68, v. 3, Pt. 8.)
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- JERSEY CITY, N. J.** Act relating to the Jersey City Water and Drainage Works. New Jersey-Legislature. Jersey City, 1869. 23 pp., 8 x 5, b. p. Dc-485, p. 343.
- Report made to the Water Commissioners of Jersey City, Apr. 11th, 1853, upon a plan of city sewerage. W. S. Whitwell. N. Y., 1853. 32 pp., 9 x 6, b. p. Dc-485, p. 145.
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- LAKE, ILL.** Report to the Board of Trustees, upon the drainage and sewerage of the Town of Lake, Ill. B. Williams and R. E. Brownell. 1885. (See Ec-32.)
- LONDON, ENG.** Copies of a communication from the Metropolitan Board of Works, to the First Commissioner of Works, requesting further information relative to the plan for the main drainage of the Metropolis, suggested in the report, dated 31st July, 1857, of Douglas Galton, James Simpson and Thomas E. Blackwell. 1858. (See Ec-230, p. 133.)
- Copy of a letter to Lord John Manners, from the Government Referees for the main drainage of the Metropolis, in answer to the report made by Bidder, Hawksley and Bazalgette, to the Metropolitan Board of Works, upon the report of the Referees. 1858. (See Ec-4.)
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- History of the drainage and sewerage of London. William Humber. 1866. (See Ec-233, p. 34.)
- Letter containing objections to the plan for the main drainage of the Metropolis suggested in the report, dated 31st July, 1857, of Captain Douglas Galton, James Simpson and T. E. Blackwell, the Referees appointed to consider the question of the main drainage; also, a letter from the Referees to the Right Hon. Sir Benjamin Hall, in reply to those objections (in continuation of Parliamentary Paper, No. 233, of Sess. 2, 1857.) Metropolitan Board of Works. 1857. (See Ec-6.)
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- Report: Metropolitan drainage. Douglas Galton, James Simpson and T. E. Blackwell. 1857. (See Ec-232.)
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- Reports from the Engineers to the Metropolitan Sewers Commissioners upon the sewage interception and main drainage of the districts north and south of the River Thames. J. W. Bazalgette and William Haywood. no place, 1854. 23 pp., maps, 13 x 9, b. p. Ec-153, p. 199.
- Reports of the Metropolitan Board of Works. (See Ol40-3.1.)
- Return of the communications, proposals, tenders and resolutions, of the years 1857, '58 and '59, for preventing the sewage of the Metropolis from passing into the River Thames within the Metropolis, by the formation of low-level sewers, unconnected with a river embankment or high-level intercepting sewers. Metropolitan Board of Works. 1857. (See Ec-9.)
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- Report, in relation to sewerage for the City of Lynn. J. H. Shedd. Note: Contains a report of the Committee on Drainage. 1877. (See Ec-71.)
- MADISON, WIS.** Report on the sewerage of the City of Madison, Wis. no date. (See Ec-99.)

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- 4 **NEPONSET VALLEY.** Report upon the sanitary condition of the Neponset Meadows in the Towns of Canton, Sharon, Norwood, Dedham, Milton and Hyde Park. Mass.-State Board of Health. Bost., 1897. 10 + 83 pp., 2 pl., maps, 9 x 6, cl.
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- Reclamation of land in the Netherlands. L. C. van Kerkwyk. 1876. (See Cb-214, p. 160.)
- Report on some of the most important hydraulic works of Holland. G. W. Hughes. no place, 1843. 30 pp., 9 x 6, b. p. Dc-444, p. 563.
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- 2 —Report on the drainage of the City of New Orleans. Nov. 24th, 1893. Advisory Board on Drainage. New Orleans, 1895. 106 pp., maps, tab., 10 x 7, ro.
- Sketch of draining sections of New Orleans, showing present canals, with proposed protection levees and reservoir canals. City Surveyor. 1872. (See Qf-276.)
- 33 —Specifications for the construction of a system of drainage. City Engineer. New Orleans, 189-. 4 + 60 pp., 14 x 8, pap.
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- 23 —Contract and specifications for drains in the 23d Ward. Department of Public Parks. no place, 1879. 24 pp., 14 x 9, pap. no title-page.
- 22 —Proposals for constructing drains in the 24th Ward. Department of Public Parks. no place, no date. 14 pp., 14 x 9, pap. no title-page.
- 1 —Report from the Topographical Engineer, upon the drainage of the 23d and 24th Wards of New York City. Department of Public Parks. no place, 1881. 60 pp., map, 9 x 6, cl. no title-page.
- 35 —Topography and hydrology of New York. E. L. Viele. N. Y., 1865. 18 pp., map, 10 x 6, cl.
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- 15 **NEWTON, MASS.** Report on plan for surface drainage for the City of Newton, Mass. City Engineer and E. A. Buss. Newton Upper Falls, 1893. 42 pp., maps, 9 x 6, pap.
- 13 **OAK-ORCHARD SWAMP, N. Y.** Report on the drainage of the Tonawanda and Oak-Orchard Swamps. New York-State Board of Health. Albany, 1873. 70 pp., maps, 9 x 6, pap.
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- OTTAWA, ONT.** Report on the main sewerage of the City of Ottawa. Rudolph Hering. 1897. (See Ec-75.)
- PENNSYLVANIA.** Surveys of the Conneaut and Pymatuning Swamps, in Crawford County: Report of the Surveyor General, under the joint resolution of 28th Feb., 1868; with which is submitted the report of James Worrall and its accompanying map and estimate. 1869. (See Qe-65.)
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- PORTLAND, ORE.** Report upon a system of sewerage for the City of Portland: Ore., to the Mayor and Common Council, Dec., 1883. A. F. Sears. 1883. (See Ec-102.)
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- Proposed plan for a sewerage system, and for the disposal of the sewage of the City of Providence. City Engineer. (City doc. No. 25.) 1884. (See Ec-112.)
- 10 **RED RIVER VALLEY.** Report of the Red River Valley Drainage Commission to the Drainage Convention, held at Crookston, Minn., Dec. 8th, 1886. Minneapolis, 1887. 31 pp., maps, 9 x 6, pap.
- 29 **ROSLINDALE, MASS.** Stony Brook improvement; contract and specifications for building brook channels at Roslindale. Boston-Street Department. Bost., 1891. 30 pp., pl., 10 x 8, pap.
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- Specifications for drainage work, Santos, Brazil. E. A. Fuertes, Rudolph Hering and J. H. Fuertes. 1894. (See Ec-13, p. 227.)
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- 30 **SESTO, LAKE OF.** Della attuali condizioni del cratere del Lago di Sesto ossia di Bientina e dei sistemi da preferirsi per il completo bonificazione. Felice Matteucci. Firenze, 1867. 32 pp., 9 x 6, pap.
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- SOUTH AUSTRALIA.** Reports on drainage works. (See Dc-556, Annual reports of the Public Works Department.)
- 21 **STATEN ISLAND, N. Y.** Report of a preliminary scheme of improvements. Staten Island Improvement Commission. N. Y., 1871. 114 pp., 9 x 6, pap.
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- Report on the subject of sewerage for the City of Taunton; with report and proposed plan by J. Herbert Shedd. Special Committee on Sewerage. 1878. (See Ec-74.)
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- WILMINGTON, DEL.** Report on a system of sewerage for the City of Wilmington, Del. Rudolph Hering. 1883. (See Ec-138.)



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- 38 —De meest voordeelige wijze van landaanwinning in de Zuiderzee. A. Huet. Note: A paper read at the meeting of the Royal Institute of Engineers, June 14th, 1894. 'S Gravenhage, 1894. 15 pp., pl., 13 x 10, pap.
- 39 —De meest voordeelige wijze van landaanwinning in de Zuiderzee. A. Huet. Note: Discussion on paper read previously at the meeting of the Royal Institute of Engineers. 'S Gravenhage, 1894. 11 pp., pl., 13 x 10, pap.

## SANITATION—SEWERAGE.

## Ec

- ALBANY, N. Y.** Annual reports of the City Engineer. (See Oa15-2.1.)
- Proceedings of the Board of Contract and Apportionment. (See Oa15-3.1.)
- ALLEGHENY, PA.** Annual reports of the Councils. (See Oa20-2.1.)
- 1 —Description of plates showing forms of sewer basins, manholes and other sewer appurtenances in use in Allegheny. City Engineer. Allegheny, 1870. 2 pp., pl., 20 x 9, bds.
- 76 —Report to the Sewerage Commission on a proper system of sewers for the City of Allegheny. City Engineer. Pittsburg, 1869. 34 pp., pl., map, 9 x 6, pap.
- 22 —Street and sewer laws of the City of Allegheny. Allegheny, 1873. 64 pp., 9 x 6, pap.
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- AMSTERDAM, HOLLAND.** Data relating to the sewerage works. Rudolph Hering. 1881. (See Ec-133, p. 42.)
- 136 **AMSTERDAM, N. Y.** Report of the Sewer Commissioners; 1st; 1889. Amsterdam, 1889. 1 v., 9 x 6, pap.
- 82 **ATLANTA, GA.** Reports on the sewerage and water supply for Atlanta, Ga. Rudolph Hering. Atlanta, 1891. 56 pp., 9 x 6, pap.
- 246 **AUBURN, N. Y.** Specifications for the construction of a sewer. City Surveyor. Auburn, 1892. 1 p., 19 x 6, pap. no title-page.
- BALTIMORE, MD.** Annual reports of the City Commissioner. (See Ob5-2.1.)
- 3 —Report of the Sewerage Commission appointed by a joint resolution of the City Council; 1st-2d; 1897-99. Balt., 1897-99. 2 v., pl., maps, 9 x 6, cl.
- 106 —Report to the Mayor and City Council upon a plan of sewerage for Baltimore City, and its probable cost, Aug., 1881. C. H. Latrobe. no place, 1881. 62 pp., 9 x 6, pap.
- 137 **BAR HARBOR, ME.** New sewer: A memorial presented by certain taxpayers to the Sewer Commissioners of the Town of Bar Harbor. H. V. Ogden and others. N. Y., 1886. 20 pp., map, 9 x 6, pap.
- 48 **BERGEN, N. J.** Engineer's report, and Sewer Commissioners' report to the Councilmen of the Town of Bergen. Jersey City, 1865. 21 pp., map, 9 x 6, pap.
- BERLIN, GERMANY.** Data relating to the sewerage works. Rudolph Hering. 1881. (See Ec-133, p. 25.)
- 162 —Les travaux d'assainissement de Danzig, Berlin, Breslau. Alfred Durand-Claye. Paris, 1881. 59 pp., il., 9 x 6, pap.
- 290 —Ueber die Reinigung und Entwässerung der Stadt Berlin. E. Wiebe. Ber., 1861. 2 v., il., pl., tab., 9 x 6 (pl. 20 x 13),  $\frac{3}{4}$  mor.
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- 28 **BIRMINGHAM, ENG.** Report to the General Board of Health, on a preliminary inquiry into the sewerage, drainage and supply of water, and the sanitary condition of the inhabitants of the Borough of Birmingham. Robert Rawlinson. Lond., 1849. 32 pp., pl., 9 x 6, b. p.
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- BLOOMINGTON, ILL.** Annual reports of the City Officers. (See Ob30-2.1.)
- 175 **BOONE, IA.** Proposal for sewers. Boone, 1894. 4 pp., 9 x 7, pap.
- 90 **BOSTON, MASS.** Annual report; 5th-11th; 1893-99. Mass.-Board of Metropolitan Sewerage Commissioners. Bost., 1894-1900. 7 v., il., pl., 9 x 6, cl.
- 66 —Annual report of the Superintendent of Sewers; 1881-82. Bost., 1882-83. 2 v., 9 x 6, pap.
- Annual reports of the Engineering Department. (See Ob35-3.1.)

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- 24 —Main drainage works of the City of Boston; by Eliot C. Clarke, Principal Assistant Engineer in Charge. ed. 3. Bost., 1888. 217 pp., 31 pl., 9 x 6, cl.
- 77 —Metropolitan main drainage: Remarks before the Joint Committee on Improved Sewerage, May 9th, 1876. C. F. Folsom. Bost., 1876. 17 pp., 9 x 6, pap.
- 252 —Proposals and specifications for pumping-engines. no place, 1879. 129 pp., 10 x 8, pap.
- 288 —Pumping engines for the Boston improved sewerage. no place, no date. pl., 26 x 39, pap. no title-page.
- Report of the Committee on the petition of David Sears and others, in respect to the drainage of the Back Bay. (City doc. No. 14.) 1850. (See Eb-16.)
- 57 —Report of the Joint Special Committee on Improved System of Sewerage, July, 1877. (City doc. No. 70.) Bost., 1877. 37 pp., 3 pl., map, 9 x 6, pap.
- Report upon the sewerage of the Mystic and Charles River Valleys. Mass.-State Board of Health. 1889. (See Ee-7.)
- 38 —Sewerage of Boston. E. S. Chesbrough, Moses Lane and C. F. Folsom. Bost., 1876. 43 pp., map, tab., 9 x 6, pap.
- 274 —Specifications, etc., for building Dorchester Bay Tunnel. no place, 1879. 28 pp., 10 x 8, pap.
- 272 —Specifications, etc., for building Section 1 of the Intercepting Sewer. Note: Brighton Intercepting Sewer. no place, 1890. 1 v., 10 x 8, pap.
- 271 —Specifications, etc., for building Section 3 of the intercepting Sewer. Note: Dorchester Intercepting Sewer. no place, 1889. 1 v., 10 x 8, pap.
- 268 —Specifications, etc., for building Section 3 of the Outfall Sewer. no place, 1890. 1 v., 10 x 8, pap.
- 275 —Specifications, etc., for building Section 10 of the Dorchester Intercepting Sewer. no place, 1890. 1 v., 10 x 8, pap.
- 270 —Specifications, etc., for furnishing bricks for the City of Boston. Note: Bricks to be used in the construction of sewers. no place, 1890. 10 pp., 10 x 8, pap.
- 269 —Specifications, etc., for furnishing cement for the City of Boston. Note: Cement to be used in the construction of sewers. no place, 1890. 9 pp., 10 x 8, pap.
- 172 —Specifications for Section 3, Outfall Sewer, and Moon Island Reservoir. no place, 1880. 43 pp., 10 x 8, pap.
- 162 **BRESLAU, GERMANY.** Les travaux d'assainissement de Danzig, Berlin, Breslau. Alfred Durand-Claye. Paris, 1881. 59 pp., il., 9 x 6, pap.
- 135 **BRIDGETON, N. J.** Report on a system of sewerage and sewage disposal for the City of Bridgeton, N. J. Alexander Potter. Bridgeton, 1898. 49 pp., 9 x 6, pap.
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- 37 **BROCKTON, MASS.** Report; transmitting the report of the City Engineer, upon a system of sewerage and sewage disposal for the City of Brockton. Board of Commissioners of Sewerage Construction. Brockton, 1893. 144 pp., pl., 9 x 6, pap.
- 89 **BROCKVILLE, ONT.** Final report of the Town Board of Sewer Commissioners, with report of Chief Engineer; 1887-91. Note: Contains rules and regulations governing the use of sewers. Brockville, 1891. 82 pp., 9 x 6, pap.
- 91 **BRONX VALLEY, N. Y.** Report of the New York State Bronx Valley Sewer Commission. N. Y., 1896. 6 + 49 pp., pl., maps in pocket, 9 x 6, cl.
- 70 **BROOKLINE, MASS.** Report to the Selectmen of Brookline, concerning a system of sewerage. E. S. Chesbrough, W. H. Bradley and E. S. Philbrick. Bost., 1875. 18 pp., 9 x 6, pap.
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- Act to amend an act entitled "An act in relation to sewerage and drainage in the City of Brooklyn," passed Apr. 15th, 1857; passed Apr. 16th, 1859. no place, 1859. 8 pp., 8 x 5, b. p. De-450, p. 745.
- 215 —Agreement for the construction of sewers in the City of Brooklyn. Department of City Works. no place, 187-. 9 pp., 14 x 8, pap. no title-page.
- Annual report of the Nassau Water Department to the Common Council; 4th, 7th-12th; 1863, '66-71. 1864-72. (See Dc-445.)
- Same; 3d, 5th-6th; 1862, '64-65. 3 v., 8 x 5, b. p. Dc-449, p. 229.
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- Brooklyn Water-Works and Sewers: A descriptive memoir. Board of Water Commissioners. 1867. (See Dc-196.)

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- Opinion relative to the constitutionality of the act entitled "An act in relation to sewerage and drainage in the City of Brooklyn, passed Apr. 17th, 1857. J. M. Van Cott and Nicholas Hill. Brooklyn, 1858. 8 pp., 8 x 5, b. p. De-450, p. 437.
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- Report of the Engineers to the Commissioners of Drainage of the City of Brooklyn, upon a plan for the drainage of Wards, First, Third and Sixth. Brooklyn, 1857. 28 pp., 8 x 5, b. p. De-450, p. 763.
- 56 —Report upon the construction of relief sewers in the City of Brooklyn. W. E. Worthen and Robert Van Buren. no place, 1878. 19 pp., pl., 9 x 6, pap.
- 216 —Specifications for cleaning sewers and street basins of the City of Brooklyn. Department of City Works. no place, 1877. sheet, 13 x 8, pap. no title-page.
- BUFFALO, N. Y.** Annual reports of the Bureau of Engineering. (See Ob50-4.1.)
- Annual reports of the City Engineer. (See Ob50-2.1.)
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- 146 **ITHACA, N. Y.** Report on plans for sewerage and draining the City of Ithaca, N. Y.; made to the Board of Sewer Commissioners, Aug. 30th, 1894. Rudolph Hering. Ithaca, 1894. 56 pp., 9 x 6, pap.
- 43 **JACKSONVILLE, FLA.** Report of the Trustees of the Sanitary Improvement Bonds, to the City Council; with report of the Superintendent and Engineer; 1881-86. Note: Reports covering period from Mar. 14th, 1883, to July 1st, 1884, wanting. Jacksonville, 1883-86. 3 v., 8 x 5, pap.
- 42 — Report of the Trustees of the Sanitary Improvement Bonds, upon the sanitary improvement bonds of Jacksonville, Fla. no place, 1878. 13 pp., 8 x 5, pap. no title-page.
- JERSEY CITY, N. J.** Act relating to the Jersey City Water and Drainage-Works. New Jersey-Legislature. Jersey City, 1869. 23 pp., 8 x 5, b. p. Dc-488, p. 343.
- Acts of the Legislature in reference to water supply and sewerage, and reports of Water Commissioners; with accompanying documents. Jersey City, 1864. 338 pp., pl., 8 x 5, b. p. Dc-486, p. 1.
- Annual reports of Chief Engineer of the Board of Public Works. (See Oj15-2.1.)
- 23 — Report made to the Water Commissioners of Jersey City, Apr. 11th, 1853, upon a plan of city sewerage. W. S. Whitwell. N. Y., 1853. 32 pp., 9 x 6, pap.
- Report of the Finance Committee, of the receipts and expenditures on account of Jersey City Water-Works and Sewers, from July 1st, 1857, to July 1st, 1861; also, showing the arrearages of water rents and assessments for sewers, up to July 1st, 1861. 1861. (See Dc-351.)
- KALAMAZOO, MICH.** Annual reports of the Board of Trustees. (See Ok10-2.1.)
- KANSAS CITY, MO.** Annual reports of the Board of Public Works to the Common Council. (See Ok15-5.1.)
- Annual reports of the City Engineer. (See Ok15-2.1.)
- 127 — Sewerage of Kansas City. G. W. Pearsons. Kansas City, 1884. pp. 96-101, 9 x 6, pap.
- 110 — The sewerage of Kansas City: A paper, with discussion and reply by Octave Chanute. Robert Moore. no place, 1884. 20 pp., 9 x 6, pap.
- 119 **KEENE, N. H.** Sewerage of two New Hampshire Towns (Keene and Laconia). G. E. Waring, Jr. Concord, N. H., 1892. 14 pp., pl., maps, 9 x 6, pap.
- LACONIA, N. H.** Annual report of the Superintendent of Sewers. (See Ol4-2.1.)
- Annual reports of the Town Officers. (See Ol5-2.1.)
- 119 — Sewerage of two New Hampshire towns (Keene and Laconia). G. E. Waring, Jr. Concord, N. H., 1892. 14 pp., pl., maps, 9 x 6, pap.
- LAFAYETTE, IND.** Reports of the City Engineer to the Common Council. (See Ol10-2.1.)
- 32 **LAKE, ILL.** Report to the Board of Trustees, upon the drainage and sewerage of the Town of Lake, Ill. B. Williams and R. E. Brownell. Chic., 1885. 20 pp., map, 9 x 6, pap.
- LAWRENCE, MASS.** Annual reports of the City Engineer. (See Ol15-2.1.)
- LENOX, MASS.** Annual reports of the Town Officers. (See Ol20-2.1.)
- LIVERPOOL, ENG.** Data relating to the sewerage works. Rudolph Hering. 1881. (See Ec-133, p. 21.)
- Report to the Health Committee of the Borough of Liverpool, on the sewerage, paving and cleansing, and other works under the Sanitary Act, by James Newlands, Borough Engineer. Liverpool, 1856. 71 + 2 pp., 8 x 5, b. p. Ee-12, p. 279-
- 205 — Specification of sewerage work, to be executed for the Health Committee-Borough Engineer. Liverpool, no date. unpagged, 15 x 10, pap.
- 153 **LONDON, ENG.** Account, in abstract, of receipt and expenditure during the year; together with a summary statement and report of all contracts entered into, and works commenced and completed during the year; and of the monies owing to, and debts owing by, the Commissioners on the 31st of Dec., 1854. Metropolitan Commission on Sewers. no place, 1855. 1 v., 19 x 9, b. p.
- City of London sewers: Report addressed to the City Remembrancer. James Walker, William Cubitt and I. Brunel. Lond., 1848. 43 pp., 3 pl., 12 x 9, b. p. Cb-163, p. 247.
- 230 — Copies of a communication from the Metropolitan Board of Works, to the First Commissioner of Works, requesting further information relative to the plan for the main drainage of the Metropolis, suggested in the report, dated 31st July, 1859, of Douglas Galton, James Simpson and Thomas E. Blackwell. no place, 1858. 19 pp., pl., maps, 13 x 8, b. p.



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- 4 — Copy of a letter to Lord John Manners, from the Government Referees for the main drainage of the Metropolis, in answer to the report made by Bidder, Hawksley and Bazalgette, to the Metropolitan Board of Works, upon the report of the Referees. Douglas Galton and James Simpson. Lond., 1858. 47 pp., 14 x 9, pap.
- 5 — Copy of report presented to the Metropolitan Board of Works, 1858. G. P. Bidder, T. Hawksley and J. W. Bazalgette. Lond., 1858. 105 pp., 9 pl., 14 x 9, pap.
- 153 — Copy of report to the Office of Works, on his experiment for withdrawing and decomposing the noxious effluvia from the sewers in the neighborhood of the Houses of Parliament. Goldsworthy Gurney. no place, 1855. 3 pp., 2 pl., 13 x 9, b. p.
- Data relating to the sewerage works. Rudolph Hering. 1881. (See Ea-133, p. 21.)
- État de la question des eaux et des égouts à Londres. Aristide and Georges Dumont. 1874. (See Dc-550, v. 1, p. 237.)
- 20 — Facts and fallacies of the sewerage system of London and other large towns; being a complete exposition of its defects; showing that pestilence is spread by its deposits; detailing the means of remedying its evils, and pointing out the necessity for public lavatories, closets, etc. J. W. Rogers. Lond., no date. 98 + 28 pp., pl., 8 x 5, b. p.
- History of the drainage and sewerage of London. William Humber. 1866. (See Cc-233, p. 34.)
- 6 — Letter containing objections to the plan for the main drainage of the Metropolis suggested in the report, dated 31st July, 1857, of Captain Douglas Galton, James Simpson and T. E. Blackwell, the Referees appointed to consider the question of the main drainage; also, a letter from the Referees to the Right Hon. Sir Benjamin Hall, in reply to those objections (in continuation of Parliamentary Paper, No. 233 of Sess. 2, 1857.) Metropolitan Board of Works. Lond., 1857. 12 pp., pl., 14 x 9, pap.
- 286 — Main drainage, Abbey Mills Pumping Station: Specifications of the engines, pumps, etc. Metropolitan Board of Works. Contents: v. 1 and 2, Specifications. v. 3 and 4, Contract drawings. Lond., 1864-66. 4 v. in 3, pl., 12 x 8 (pl. 25 x 19), skiv.
- Main drainage of London. J. W. Bazalgette. 1880. (See Ec-14, p. 171.)
- 287 — Main drainage, south side, low-level sewer: Contract drawings. Metropolitan Board of Works. Lond., 1862. pl., 25 x 20, skiv.
- 284 — Main drainage, southern outfall works, Crossness, Kent: Specification of and for the engine- and boiler-houses, coal sheds, dwelling houses, reservoir, river wall, sewers, etc. Metropolitan Board of Works. Contents: v. 1, Specifications (incomplete.) v. 2 and 3, Contract drawings. Lond., 1862. 3 v., pl., 12 x 8 (pl. 25 x 19), skiv.
- 285 — Main drainage: Specifications of the Northern low-level sewer, 1864. Metropolitan Board of Works. Contents: v. 1, Specifications. v. 2, Contract drawings. Lond., 1864. 2 v., pl., 12 x 8 (pl. 25 x 19), skiv.
- Main drainage; the proceedings from 1854 to 1865. G. D. Dempsey. 1865. (See Ec-15a, p. 194.)
- 281 — Minutes of evidence. Great Britain-Select Committee on the London Drainage Bill. no place, 1853. 2 v., 13 x 9, b. p.
- On sanitary misrule, corporate and parochial; on the London water monopoly; and on the question: Should the sanitary government of the country be consolidated, or remain as heretofore a branch of ordinary parochial administration? *London Times*. 1851. (See Dc-433, p. 45.)
- 20 — On the metropolitan system of drainage, and the interception of the sewage from the River Thames. J. W. Bazalgette. Lond., 1865. 38 pp., map, 8 x 5, b. p.
- Practical essay on the water supply of the northern, north-eastern and eastern portions of the Metropolis, comprising the Districts of the New River Co. and East London Water Co.; in explanation of an application to Parliament in the Session of 1854, by the Lee Water, Sewage and Navigation Co. W. Burch. 1853. (See Dc-433, p. 165.)
- 282 — Report: Metropolitan drainage. Douglas Galton, James Simpson and T. E. Blackwell. no place, 1857. various pagings, pl., maps, 13 x 8, pap.
- Report of the Commissioners appointed to inquire whether any and what special means may be requisite for the improvement of the health of the Metropolis; 1st-3d. Great Britain-Metropolitan Sanitary Commission. 1847-48. (See Eg-62.)
- 153 — Report on the Victoria Street Sewer. James Simpson. no place. 1853. 6 pp., 13 x 9, b. p.
- 153 — Report on the Victoria Street Sewer. Metropolitan Commission on Sewers. no place, 1851. 6 pp., map, 13 x 9, b. p. no title-page.

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- 231 — Reports and communications in reference to the drainage of the Metropolis; together with correspondence on the subject. Great Britain-General Board of Health. no place, 1854. 217 pp., maps, 13 x 9, b. p.
- 153 — Reports from the Engineers to the Metropolitan Sewers Commissioners, upon the sewage interception and main drainage of the districts north and south of the River Thames. J. W. Bazalgette and William Haywood. no place, 1854. 28 pp., maps, 13 x 9, b. p.
- Reports of the Metropolitan Board of Works. (See O140.3.1.)
- Reports of works executed. Commissioners of Sewers. (See O140.2.1.)
- 153 — Reports on the working of pipe sewers, with *facsimile* copies of the drawings accompanying their reports; also notes of a house-to-house inquiry, made in Ormond Terrace, by F. O. Ward, as to the work of 4 and 6-in. pipe drains. Thomas Lovick and others. no place, 1855. 72 pp., 24 + 1 pl., 13 x 9, b. p.
- 9 — Return of communications, proposals, tenders and resolutions, of the years 1857, '58 and '59, for preventing the sewage of the Metropolis from passing into the River Thames within the Metropolis, by the formation of low-level sewers, unconnected with a river embankment or high-level intercepting sewers. Metropolitan Board of Works. Lond., 1857. 21 pp., maps, 14 x 9, pap.
- 153 — Return of copies of letters to J. J. Morewood, and resolutions of Commissioners, in reference to the great London drainage scheme; and copies of reports by James Simpson and others, in reference to the Victoria Street Sewer, with original estimate, contract price and ultimate cost of construction. Metropolitan Commission on Sewers. no place, 1853. 2 v., 9 pl., 13 x 9, b. p.
- 153 — Return of the amount of rates made and levied by the Commissioners of Sewers, on the several parishes in each district, from 1843 to 1847, and return showing the length, size and cost of new works executed, the amount expended in each year, etc. no place, 1854. 44 pp., tab., 13 x 9, b. p.
- 153 — Return of the rates levied by the Commission in the several parishes of the Borough of Lambeth, and the amount of such rates collected and expended in each parish in each year from 1848 to 1854, both inclusive. Metropolitan Commission on Sewers. no place, 1855. 3 pp., 13 x 9, b. p.
- 153 — Return of the total expenditure relating to the Victoria Street Sewer, with an account of monies raised towards the expenditure of the said sewer; together with the names of the members of the Commission of Sewers under whose orders the Victoria Sewer was commenced. Metropolitan Commission on Sewers. no place, 1855. 10 pp., 13 x 9, b. p.
- 153 — Return "setting forth the main sewers of the Metropolis to be inserted in Schedule D of the Metropolis Local Management Bill." no place, 1885. 8 pp., 13 x 9, b. p.
- 15 — Rudimentary treatise on the drainage of towns and buildings; suggestive of sanitary regulations conducive to the health of an increasing population. ed. 2, rev. G. S. Dempsey. Lond., 1854. 212 pp., il., 7 x 4, cl.
- LOS ANGELES, CAL.** Municipal reports. (See O145-2.1.)
- Report of the Board of Engineers, upon the disposal of the sewage of Los Angeles City, and its sewer system. Rudolph Hering and others. 1889. (See Ee-69.)
- 186 **LOUISVILLE, KY.** Specifications for sewers, City of Louisville, 1889. City Engineer. no place, 1889. 28 pp., 13 x 5, pl., 6 x 4, pap.
- 25 **LOWELL, MASS.** Report to the Committee on Sewers and Drains of the City of Lowell, on a general system of sewerage. City Engineer. Lowell, 1874. 56 pp., il., map, 9 x 6, b. p.
- 35 **LUDINGTON, MICH.** Discussion of the sewerage and drainage of Ludington. A. A. Clark. no place, no date. pp. 23-26, 10 x 6, pap. no title-page.
- LYNCHBURG, VA.** Reports of the Standing Committees of the Council. (See O155.2.1.)
- LYNN, MASS.** Annual reports of the City Engineer. (See O160-2.1.)
- 71 — Report in relation to sewerage for the City of Lynn. J. H. Shedd. Lynn, 1877. 4 + 30 pp., pl., map, 9 x 6, pap.
- 99 **MADISON, WIS.** Report on the sewerage of the City of Madison, Wis. A. D. Conover. no place, no date. 4 pp., 9 x 6, pap.
- 247 — Specifications for sewer construction. Madison, 1896. 1 p., 24 x 18, pap. no title-page.
- 64 **MALDEN, MASS.** Report, to the Board of Street Commissioners, on a sewerage system. City Engineer. Malden, 1892. 18 pp., 9 x 6, pap.
- MANCHESTER, N. H.** Annual reports of the City Engineer. (See Om10-2.1.)
- 245 **MARLBOROUGH, MASS.** Contract and specifications for constructing section No. — of sewerage system. Sewerage Committee. no place, 1890. 23 pp., 10 x 8, pap.
- Reports of the City Engineer. (See Om15-2.1.)

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- 34 **MARQUETTE, MICH.** Sewerage of the City of Marquette: Correspondence and report of examination by the Secretary of the State Board of Health. H. B. Baker. no place, 1886. pp. 170-173, 9 x 6, pap. no title-page.
- 90 **MASSACHUSETTS.** Annual report of the Board of Metropolitan Sewerage Commissioners; 5th-11th; 1893-99. Bost., 1894-1900. 7 v., il., pl., 9 x 6, cl.  
—Annual reports of the State Board of Health; 1869-98. (See Eg-7.)  
—Special report on the pollution of rivers. J. P. Kirkwood. 1876. (See Ee-90.)
- 47 **MEDFORD, MASS.** Report on the subject of sewerage, Dec., 1873. Board of Selectmen. Medford, 1873. 22 pp., map, 9 x 6, pap.
- 237 **MELBOURNE, AUSTRALIA.** Hydraulic shield tunnelling in Melbourne. G. H. Dunlop. Note: Used in building the sewers of Melbourne. no place, 1898. 22 pp., il., 9 x 6, pap. no title-page.
- MEMPHIS, TENN.** Assainissement de Memphis. E. Lavoinne. 1881. (See Eg-72.)  
—Biennial reports of the Fire and Police Commissioners to the Governor of the State. (See Om25-1,2.)  
—The death-rate of Memphis. G. E. Waring, Jr. 1882. (See Eg-39.)
- 105 —The Memphis sewers after four years' use; with remarks on the similar system at Keene, N. H. G. E. Waring, Jr. Newport, 1884. 15 pp., 7 x 5, pap.
- 109 —The Memphis system of sewerage at Memphis and elsewhere. G. E. Waring, Jr. Concord, 1893. 18 pp., 9 x 6, pap.  
—Report of the Chief Engineer, upon a public water supply and a system of drainage for the City of Memphis. Board of Water-Works and Sewerage Commissioners. Louisville, 1868. 110 pp., 9 x 6, b. p. De-437, p. 523.
- 107 —Report on the condition of the sewers of Memphis, Tenn., Mar. 4th, 1893. G. E. Waring, Jr. no place, 1893. 10 pp., 9 x 6, pap.  
—Statements and estimates relating to pavements, sewers, etc., showing details of cost, specifications, and other information of work done. City Engineer. 1893. (See Na-78.)
- MERIDEN, CONN.** Message of the Mayor and annual reports of the several departments. (See Om30-2,1.)
- 171 **MEXICO, MEX.** Proyecto de desagüe y saneamiento de la Ciudad de Mexico. Roberto Gayol. Mexico, 1891. 94 pp., 2 + 11 pl., 25 tab., 13 x 8, cl.
- 236 **MILLBURN, N. J.** Report on the design and apportionment of cost of a joint tide-water sewer for the Municipalities of Newark, South Orange, Vailsburg, Irvington, and the Townships of West Orange, Millburn and South Orange, N. J. Alexander Potter. Irvington, 1898. 67 pp., map, 9 x 6, pap.
- 121 **MILTON, MASS.** Report of the Committee on Drainage. Bost., 1895. 26 pp., map, 9 x 6, pap.
- MILWAUKEE, WIS.** Annual reports of the Board of Public Works. (See Om40-4,1.)  
—Annual reports of the City Engineer. (See Om40-2,1.)
- 151 —Report of the Commission of Engineers, on the collection and final disposal of the sewage, and on the water supply of the City of Milwaukee, 1889. G. H. Benzenberg and others. Milwaukee, 1889. 101 pp., map, 9 x 6, pap.
- MINNEAPOLIS, MINN.** Annual reports of the City Engineer. (See Om45-3,1.)
- 192 **MONTCLAIR, N. J.** Notice to contractors for building sewers and appurtenances. Township Committee. Montclair, 1893. unpagcd, 14 x 9, pap. no title-page.
- MONTREAL, QUE.** Report on the various works executed by the Road Department. City Surveyor. (See Om55-3,1.)  
—Reports on the Corporation accounts; reports of the Chiefs of Departments. (See Om55-2,1.)
- 44 **MYSTIC VALLEY, MASS.** Report on a plan for the drainage of the Mystic and Charles River Valleys, and the immediate vicinity of Boston. Mass.-Metropolitan Drainage Commissioners. Bost., 1882. 21 pp., map, 9 x 6, pap. no title-page.
- NASHUA, N. H.** Annual reports of the City Engineer. (See On5-2,1.)
- NASHVILLE, TENN.** Annual reports of the Treasurer and Recorder, Chief of Fire Department and other officers. (See On10-2,1.)
- 130 **NEPONSET VALLEY, MASS.** Report upon a high-level gravity sewer for the relief of the Charles and Neponset River Valleys. Mass.-Metropolitan Sewerage Commissioners. Bost., 1899. 113 pp., maps, 9 x 6, cl.
- NEW HAVEN, CONN.** Annual reports of the Board of Public Works. (See On20-3,1.)
- NEW JERSEY.** Proceedings of the annual meeting of the New Jersey Sanitary Association. (See Sa3-96,1.)
- 263 —Report of the State Sewerage Commission; 1899. Trenton, 1900. 1 v., 9 x 6, pap.
- 266 **NEW LONDON, CONN.** Annual report of the Board of Sewer Commissioners; 1st-7th; 1886-June '93. New London, 1887-93. 7 v., 9 x 6, pap.



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- 143 — Report on a system of sewerage for the City of New London, Conn. Rudolph Hering. New London, 1885. 8 pp., 9 x 6, pap.
- NEW SOUTH WALES.** Report of the Commissioners for Roads, Bridges and Sewerage. (See De-115, Annual reports of the Public Works Department.)
- NEW YORK CITY.** Annual report of the Board of Health; 1870-73, '91. 1871-92. (See Eg-4.)
- Annual report of the Croton Aqueduct Department, made to the Common Council; 4th, 11th, 13th-21st; 1852, '59, '61-69. (See De-627.)
- Same; 1st; 1849. 1 v., 9 x 6, b. p. De-432, p. 984.
- Same; 3d-5th, 7th, 9th, 11th, 13th; 1851-53, '55, '57, '59, '61. De-629, p. 1.
- Same; 10th, 15th-16th; 1858, '63-64. 3 v., 8 x 5, b. p. De-454, p. 137.
- Annual reports of the Department of Public Works. (See On25-8.1.)
- 197 — Contract for a sewer in Seventy-sixth Street between the Boulevard and Eleventh Avenue. Department of Public Works. no place, 1878. 25 pp., 14 x 8, pap.
- 227 — Contract for building a sewer with its appurtenances in Brook Avenue, in the 23d Ward, in the City of New York. Department of Public Parks. no place, 1876. 25 pp., 14 x 8, pap.
- 201 — Contract for constructing sewers and appurtenances in 139th Street, from Third Avenue to the summit between Alexander and Willis Avenues, with branches in Alexander Avenue between 139th and 140th Streets. Department of Public Parks. no place, 1881. 28 pp., 14 x 8, pap.
- 204 — Contract for constructing sewers and appurtenances in 145th and 144th Streets between Third and Brook Avenues; and in 143d Street between Alexander and Brook Avenues, with branches in Willis Avenue between 146th and 142d Streets; and in Alexander Avenue between 143d and 142d Streets. Department of Public Parks. no place, 1881. 28 pp., 14 x 8, pap.
- 200 — Contract for constructing sewers and appurtenances in 146th Street between 3d Avenue and Brook Avenue, with branches in Willis Avenue between 146th and 147th Streets; and in Courtland Avenue between 3d Avenue and 151st Street. Department of Public Parks. no place, 1881. 28 pp., 14 x 8, pap.
- 202 — Contract for construction of sewer in 141st Street from Alexander Avenue to Brook Avenue, with branches in Alexander Avenue, and Willis Avenue. Department of Public Parks. no place, 1879. 24 pp., 14 x 8, pap.
- 199 — Contract for construction of sewers in Mott Avenue, 144th Street, and 138th Street, in the 23d Ward. Department of Public Parks. no place, 1877. 23 pp., 14 x 8, pap.
- 210 — Contract for construction of sewers in 140th Street, from Alexander Avenue to Brook Avenue, with branches in Alexander and Willis Avenues. Department of Public Works. no place, 1878. 25 pp., 14 x 8, pap.
- 195 — Contract for construction of sewers in Third Avenue, 134th and 135th Streets, with branches in Lincoln, Alexander and Willis Avenues. Department of Public Parks. no place, 1878. 28 + 4 pp., 14 x 8, pap.
- 203 — Contract for sewer in Fifteenth Street between Irving Place and Fourth Avenue, from end of present sewer in Fifteenth Street. Department of Public Works. no place, 1881. 27 pp., 14 x 8, pap.
- 222 — Contract for sewer in Fifty-first Street, between First and Second Avenues. Department of Public Works. no place, 1877. 25 pp., 14 x 8, pap.
- 206 — Contract for sewer in One Hundred and Fourth Street, between Fourth and Fifth Avenues. Department of Public Works. no place, 1878. 25 pp., 14 x 8, pap.
- 198 — Contract for sewer in Twelfth Avenue, between 130th and 131st Streets, and in 131st Street, between Twelfth Avenue and the Boulevard. Department of Public Works. no place, 1878. 25 pp., 14 x 8, pap.
- 209 — Contract for sewers in Vandam Street, between Greenwich and McDougal Streets; in Sullivan, between Broome and Spring; in Watts, between Greenwich and West; and in Washington, from Vestry, to and through Laight to near Greenwich. Croton Aqueduct Department. no place, 1868. 24 pp., 14 x 8, pap. no title-page.
- 196 — Contract for the construction of a sewer in Third Avenue, and 143d Street, in the 23d Ward. Department of Public Parks. no place, 1877. 22 pp., 14 x 8, pap.
- 218 — Contract for the construction of pipe sewers for Central Park. Department of Public Works. no place, 1876. 20 pp., 14 x 8, pap.
- 191 — Proposals for sewer in 115th Street between 8th and Manhattan Avenues, and between Manhattan Avenue and avenue east of Morningside Park. Department of Public Works. no place, 1888. 30 pp., 14 x 9, pap. no title-page.
- 249 — Receiving basins and manholes for the 23d Ward sewerage. Department of Public Works. N. Y., 1877. sheet, 14 x 11, pap.
- Report from the Topographical Engineer, upon the drainage of the 23d and 24th Wards of New York City. 1881. (See Eb-1.)
- Reports of the Department of Public Works. (See On25-8.2.)

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 — Specification for sewer. Croton Aqueduct Board. no place, 185-. 7 + 4 pp., 15 x 10, b. p. no title-page. Dc-1019, pp. 117, 143.
- NEW YORK STATE.** Annual report of the State Board of Health; 1880-97. (See Eg-3.)
- 26 — Report to the State Board of Health, on the methods of sewerage for cities and large villages in the State of New York. J. T. Gardiner. Albany, 1882. 15 pp., 9 x 6, pap.
- NEWARK, N. J.** Annual reports of the Board of Street and Water Commissioners. (See Dc-364.)  
 — Proposal for sewer in the City of Newark, Sept., 1852. City Surveyor. no place, no date. 1 p., 21 x 13, b. p. no title-page. Dc-763, p. 27.
- 236 — Report on the design and apportionment of cost of a joint tide-water sewer for the Municipalities of Newark, South Orange, Vailsburg, Irvington and the Townships of West Orange, Millburn and South Orange, N. J. Alexander Potter. Irvington, 1898. 67 pp., map, 9 x 6, pap.
- 139 — Report on the improved sewerage system. J. W. Adams and Rudolph Hering. N. Y., 1884. 7 pp., 9 x 6, pap. no title-page.  
 — Report on the sewerage and drainage of a portion of the City of Newark, N. J., including the Meadow drainage. Rudolph Hering. 1895. (See Dc-364, Annual report, 1895, p. 76.)  
 — Reports of the City Surveyor. (See On30-2.1.)
- 225 **NEWPORT, R. I.** Advertisement and specifications for building retaining walls for main sewer outlet at foot of Marsh Street, Newport, R. I. Committee on Streets and Highways. no place, 1886. unpagcd, 13 x 8, pap. no title-page.
- 223 — Advertisement and specifications for furnishing iron sewer pipes. Committee on Streets and Highways. no place, 1886. unpagcd, 13 x 8, pap. no title-page.
- 224 — Advertisement and specifications for laying submerged iron sewer pipe across the inner harbor, Newport, R. I. Committee on Streets and Highways. no place, 1886. unpagcd, 13 x 8, pap. no title-page.  
 — Drainage map of the City of Newport, and of Middletown, R. I. J. P. Cotton. 1880. (See Qf-493.)
- 45 — Report and estimates, for the completion of the sewerage system of the City of Newport, R. I. City Engineer. Newport, 1885. 15 pp., 8 pl., 9 x 6, pap.
- 63 — Report of the Committee on Streets and Highways, to the City Council, on plan of sewerage for the city. Newport, 1880. 24 pp., map, 8 x 5, pap.
- 62 — Report of the Consulting Engineers, on examination of the sewerage system of the City of Newport, R. I. S. M. Gray and E. C. Clarke. Newport, 1885. 6 pp., 9 x 6, pap.
- 60 — Sewerage and drainage of Newport, R. I. Drainage Construction Co. Newport, 1880. 15 pp., map, 9 x 6, pap.
- NEWTON, MASS.** Annual reports of the City Engineer. (See On40-2.1.)
- 243 — Contract and specifications for building section —, Newton sewerage system. Joint Standing Committee on Sewerage. no place, 1891. 53 pp., 10 x 8, pap.
- 241 **NIAGARA FALLS, ONT.** Niagara Falls sewerage system: Contract and specifications for construction of Sections Nos. 1-2. Sewer Committee. Niagara Falls, 1886. 2 v., 10 x 7, pap.
- NORTH CAROLINA.** Report on the sanitary inspection of the state institutions and the water supply and sewage disposal of cities and towns. J. C. Chase. 1895. (See Dc-729.)
- NORTHAMPTON, MASS.** Annual reports of the City Officers. (See On57-2.1.)
- NORWICH, CONN.** Reports of the Committee on Streets, Street Commissioner, and Board of Sewer Commissioners; 1886-87. (See Na-77.)
- 194 **NYACK, N. Y.** Nyack sewer system: Notice to contractors, specifications, proposal, contract, bond, etc. J. S. Haring. Nyack, 1896. 27 pp., 14 x 9, pap.
- OMAHA, NEB.** Annual reports of the City Engineer. (See Oo20-2.1.)  
 — Municipal reports. (See Oo20-3.1.)
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- 68 — Report, with plans and estimates, for the sewerage and drainage of Orange, N. J., by Bassett & Nute and Rudolph Hering, Consulting Engineer, Oct., 1885. Joint Committee on Sewerage and Drainage. Orange, 1885. 28 pp., 8 x 5, pap.
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- 102 **PORTLAND, ORE.** Report, upon a system of sewerage for the City of Portland, Ore., to the Mayor and Common Council, Dec., 1883. A. F. Sears. no place, 1883. 44 pp., 9 x 6, pap.
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- SAGINAW, MICH.** Annual reports of the Board of Public Works to the Common Council. (See Os5-2.1.)

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- Annual report of the Commissioners of Sewerage and Water Supply; 1st-3d, 10th, 12th, 14th-16th, 23d; 1856-58, '65, '67, 69-71, '78. (See Dc-142.)
- Superintendent and Engineer's report; 34th-43d; 1889-98. (See Dc-427.)
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- ST. PAUL, MINN.** Annual reports of the Board of Public Works. (See Os35-3.1.)
- Annual reports of the City Engineer. (See Os35-2.1.)
- SALEM, MASS.** City documents. (See Os45-2.1.)
- 251 **SALT LAKE CITY, UTAH.** Advertisement, instruction to bidders, proposal, specifications, contract and bond for the construction of pipe sewers. Board of Public Works. no place, 189-. 20 pp., 14 x 8, pap.
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- 226 **SOUTH ORANGE, N. J.** Report on the design and apportionment of cost of a joint tide-water sewer for the Municipalities of Newark, South Orange, Vailsburg Irvington, and the Townships of West Orange, Millburn and South Orange, N. J. Alexander Potter. Irvington, 1898. 67 pp., map, 9 x 6, pap.

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- 53 —Report to the Mayor and City Council; with report of Rudolph Hering, Consulting Engineer, Nov., 1895. Sewer Commission. Taunton, 1895. 24 pp., pl., map, 9 x 6, pap.
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- UTICA, N. Y.** Annual reports of the City Surveyor. (See Ou8-2.1.)
- 236 **VAILSBURG, N. J.** Report on the design and apportionment of cost of a joint tide-water sewer for the Municipalities of Newark, South Orange, Vailsburg, Irvington, and the Townships of West Orange, Millburn and South Orange, N. J. Alexander Potter. Irvington, 1898. 67 pp., map, 9 x 6, pap.
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- 173 **WATERVLIET ARSENAL, WEST TROY, N. Y.** Specifications for the construction of sewers and drains at Watervliet Arsenal, West Troy, N. Y. U. S.-Ordinance Office. no place, 1890. 15 pp., 10 x 8, pap.
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- GENERAL.**
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- 4 **BOWDITCH, E. W.** Paper on the drainage of summer hotels and country boarding-houses. Bost., 1880. 35 pp., il., 9 x 6, pap.
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- 12 **CHADWICK, SIR EDWIN.** Address on house drainage. Lond., 1884. 10 pp., 8 x 5, pap.
- 5 **CLARKE, E. C.** Common defects in house-drains. Bost., 1879. 22 pp., il., 9 x 6, pap.
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- 9 **GERHARD, W. P.** House drainage and sanitary plumbing. Providence, 1882. 104 + 1 pp., il., pl., 9 x 6, pap.
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- 3 **LOWRIE, H. C.** House drainage, sewer gas and flushing traps: A paper read before the Denver Society of Civil Engineers, June 30th, 1886. no place, no date. 31 pp., il., 9 x 6, pap.
- 6 **McCLELLAN, E. S.** The sewer gas question: An analysis and illustrated comparison of the several methods and means of establishing and maintaining the seals of sewer-gas traps. N. Y., 1890. 16 pp., il., 9 x 6, pap.
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## SANITATION—SEWAGE DISPOSAL.

## Ee

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- 61 **COODE, GEORGE.** Unpolluted streams: A letter to Lord John Manners. Lond., 1858. 16 pp., 8 x 5, pap.
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## SANITATION—HEALTH AND DISEASE.

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- SHEPPARD, EDGAR. Bathing; how to do it, and where to do it. ed. 2. Lond., 1866. 39 pp., 8 x 5, b. p. Ec-12, p. 241.
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- SMITH, A. H. The effects of high atmospheric pressure, including the caisson disease. Brooklyn, 1873. 43 pp., 9 x 6, b. p. Fg-22, p. 297.
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- 84 UNITED STATES—BUREAU OF MEDICINE AND SURGERY (NAVY DEP'T). Medical essays; compiled from reports to the Bureau of Medicine and Surgery, by the Medical Officers of the U. S. Navy. Note: Reports on naval hygiene. Wash., 1872. 3 + 367 pp., 9 x 6, cl.
- 85 —Naval hygiene, by Joseph Wilson; with an appendix: Moving wounded men on shipboard, by Albert C. Gorgas. Wash., 1870. 234 pp., 9 x 6, ¼ mor.
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- 60 UNITED STATES—NATIONAL BOARD OF HEALTH. Schedules of questions for a sanitary survey of a city or town. no place; no date, 55 pp., 8 x 11, bds.
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- 32 —On the requisite attributions of a minister of health, and on the principles of central and local administrative organization and action according to British experiences. Sir Edwin Chadwick. (International Cong. of Hygiene.) Lond., 1878. 35 pp., 8 x 5, pap.



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- 33 —Report of the Medical Officer of the Privy Council; 6th; 1863. Lond., 1864. 1 v., 10 x 6,  $\frac{1}{2}$  ro.
- 64 —Report of the Royal Sanitary Commission; with minutes of evidence; 1st; 1869. Lond., 1870. 1 v., 13 x 8, pap.
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- Reports of the Medical Officer and Local Government Board. 1874. (See Ec-61.)
- 5 —Weekly returns of births and deaths in London and in thirteen other large towns of the United Kingdom; 1868-71; v. 29-32. Registrar General. Note: Nos. 8, 16, 21, 25 and 29 (v. 27) 1866 bound with v. 31; Nos. 18, 24, 30, v. 30, and No. 22, v. 31, wanting. Lond., 1868-71. 4 v., 9 x 6,  $\frac{3}{4}$  mor.
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- HAVANA, CUBA.** Annual reports of the Military Governor. (See On23-2.1.)
- HELSINGFORS, FINLAND.** Sanitary laws and regulations. Albert Palmberg. 1893. (See Eg-57, p. 492.)
- 65 **ILLINOIS.** Report of proceedings of the quarterly meeting of the State Board of Health, Oct., 1885-86. Springfield, 1885-86. 2 v., 9 x 6, pap.
- 63 **INDIA.** Report on cholera in Europe and India; by Edward O. Shakespeare, Commissioner. U. S.-Department of State. Wash., 1890. 25 + 945 pp., il., pl., maps, 12 x 9, cl.
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- 97 —Monthly bulletin of the State Board of Health; July, 1889-Apr., 1897; v. 3-10. Note: v. 3. Nos. 1, 3, 6; v. 4, No. 12; v. 5; v. 6, No. 1; v. 9, No. 7; v. 10, Nos. 5, 12, wanting. Des Moines, 1889-97. 7 v., 9 x 6, pap. no title-page.
- 29 **IRVINGTON, N. Y.** Irvington sanitary survey: An examination as to local causes of fever and ague on the east bank of the Hudson River from Dobbs Ferry to Tarrytown; with recommendations for improvements; also, suggestions for the sewerage of Irvington Village. G. E. Waring, Jr. N. Y., 1879. 15 + 74 pp., il., map, 9 x 6, pap.
- 71 **JACKSONVILLE, FLA.** Report of the Jacksonville Auxiliary Sanitary Association, of Jacksonville, Fla., covering the work of the Association during the yellow fever epidemic, 1888. C. S. Adams, ed. Jacksonville, 1889. 292 + 59 pp., 9 x 6, pap.
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- LIVERPOOL, ENG.** Report on the establishment and present condition of the public baths and wash-houses in Liverpool, by James Newlands. Borough Engineer. Liverpool, 1856. 103 + 9 pp., pl., 8 x 5, b. p. Ec-12, p. 353.
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- 62 —Report of the Commissioners appointed to inquire whether any and what special means may be requisite for the improvement of the health of the Metropolis; 1st-3d. Great Britain-Metropolitan Sanitary Commission. Lond., 1847-48. 5 v. in 1, il., 13 x 9,  $\frac{3}{4}$  ro.
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- Same; 1870, 72. New Orleans, 1871-73. 2 v., 9 x 6, b. p. Ec-25, p. 333.
- LOWELL, MASS.** Report upon the sanitary condition of the water supply of Lowell, Mass.; presented to the Water Board of Lowell, Apr. 10th, 1891. (See Dc-703.)
- 7 **MASSACHUSETTS.** Annual report of the State Board of Health; 1st-30th; 1869-98. Note: No report issued in the year 1881. Report for the first half of the year 1879 issued as the 11th annual report. Report for the second half of the year 1879 and reports for the years 1880-85 issued as the Public Health Supplement of the Annual Report of the State Board of Health, Lunacy and Charity. Bost., 1870-99. 30 v., 9 x 5, pap., cl.

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- 99 —Report of the Secretary of the Commonwealth to the Legislature of Massachusetts, relating to the registry and return of births, marriages and deaths in the Commonwealth; 30th; 1871. Bost., 1873. 1 v., 9 x 6, cl.  
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- 8 —Summary of seven years' work of the State Board of Health of Massachusetts. W. L. Richardson. Bost., 1876. 61 pp., 9 x 6, pap.
- 42 —Typhoid fever in its relation to water supplies. H. F. Mills. no place, 1871 (?) 19 pp., 9 x 6, pap.
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- 39 —The death-rate of Memphis. G. E. Waring, Jr. no place, 1882. 8 pp., 9 x 5, pap.
- 77 **MICHIGAN.** List of Publications which remain in print and may be had on application. State Board of Health. no place, 1889. pp. 143-156, 9 x 6, pap.
- MINNESOTA.** Vital statistics of Minnesota. Commissioner of Statistics. (See Qe-36, Annual reports.)
- 15 **MONTREAL, QUE.** Our health and our diseases: Condition of Montreal in a sanitary point of view. F. P. Mackelcan. Montreal, 1879. 43 pp., 9 x 6, pap.
- 4 **NEW YORK CITY.** Annual report of the Board of Health; 1870-73, '91. N. Y., 1871-93. 5 v., 9 x 6, cl.  
—Report by the Mayor's Committee on Public Baths and Public Comfort Stations. 1897. (See On25-1.15.)
- 102 —Report of the Council of Hygiene and Public Health, of the Citizens' Association, upon the sanitary condition of the City. ed. 2. N. Y., 1866. 143 + 360 pp., il., pl., maps, 9 x 6, cl.
- 18 —Sanitary code of the Board of Health, Mar., 1878. N. Y., 1878. 93 pp., 6 x 4, pap.
- 19 **NEW YORK STATE.** Act for the preservation of the public health, and the registration of vital statistics; passed May 12th, 1885. no place, 1885. 7 pp., 9 x 6, pap. no title-page.
- 6 —Annual report of the Metropolitan Board of Health; 1st-4th; 1866-69. Albany, 1867-70. 4 v., 9 x 6, cl., cf.
- 3 —Annual report of the State Board of Health; 1st-17th; 1880-97. Note: Reports 7th, 16th wanting. Albany, 1881-98. 15 v. in 21, 9 x 6, pap., cl.
- 53 —Monthly Bulletin of the State Board of Health; 1899; v. 15. Albany, 1899. 1 v., 12 x 9, pap.
- 31 **NEWPORT, R. I.** Annual reports of the Sanitary Protection Association; 1880-81; v. 3. no place, 1881. 1 v., 12 x 9, pap.
- PARIS, FRANCE.** Commission des Logements Insalubres; rapport général sur les travaux de la Commission; 1884-92. Département de la Seine. 1895. (See Ja-120.)  
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- 93 **PENNSYLVANIA.** Annual report of the State Board of Health and Vital Statistics; 1st-5th; 1885-89. Harrisburg, 1886-91. 5 v., pl., maps, tab., 9 x 6, cl.  
—Compendium of the laws relating to public health and safety of the State of Pennsylvania, together with the decision of the Supreme Court and County Courts relating thereto. 1888. (See Eg-93, Annual report, 1886, p. 547.)
- 21 **PHILADELPHIA, PA.** Report of the Board of Health to the Mayor, 1874. Phil., 1875. 1 v., 9 x 6, pap.
- PITTSBURG, PA.** Report of the Filtration Commission. 1899. (See Dc-296.)
- 34 **ST. LOUIS, MO.** The sanitary condition of St. Louis, with special reference to Asiatic cholera. J. M. Leete and Robert Moore. St. Louis, 1885. 16 pp., 9 x 6, pap.
- SAN FRANCISCO, CAL.** Municipal reports. (See Os55-2.1.)  
—Problem of the sewerage of San Francisco: A polyclinic lecture. I. H. Stallard. 1892. (See Ec-113.)
- SCOTLAND.** Sanitary administration and legislation. Albert Palmberg. 1893. (See Eg-57, p. 185.)
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- 63 **SPAIN.** Report on cholera in Europe and India; by Edward O. Shakespeare, Commissioner. U. S.-Department of State. Wash., 1890. 25 + 945 pp., il., pl., maps, 12 x 9, cl.

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- TENBY, ENG.** Report to the General Board of Health on a preliminary inquiry into the sewerage, drainage and supply of water, and the sanitary condition of the inhabitants of the Parish of St. Mary, within the Borough of Tenby, in the County of Pembroke. G. T. Clark. 1850. (See Ec-28, p. 189.)
- 79 **TENNESSEE.** Memorial to Congress praying the establishment of a marine hospital at Memphis. General Assembly. (31st Cong., 1st Sess. Senate misc. doc. No. 76.) Wash., 1850. 2 pp., 9 x 6, pap.
- 95 —Report of the State Board of Health; 2d; Oct., 1880-Dec., 1884. Nashville, 1885. 1 v., pl., 9 x 6, cl.
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- 37 **UNITED STATES.** Annual report of the National Board of Health; 1879, 82-'83. Wash., 1879-83. 3 v., 9 x 6, cl.
- 105 —Bulletin of the National Board of Health; July, 1880-June, 1882; v. 2-3. Note: v. 3, July, 1881-June, '82 incomplete. Wash., 1880-82. 2 v., 11 x 9, pap.
- 16 —The climate and diseases of America during the Revolution; tr. by James Read Chadwick. J. D. Schoepff. Note: Translation of pamphlet published in 1781. Bost., 1875. 31 pp., 9 x 7, pap.
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- 87 —Report of surgical cases treated in the Army of the United States from 1865 to 1871. U. S.-Surgeon General's Office. (Circular No. 3.) Wash., 1871. 296 pp., il., pl., 12 x 9, pap.
- 83 —Report of the Bureau of Medicine and Surgery, to the Secretary of the Navy, 1892. (Navy Dept.) Wash., 1892. 1 v., 9 x 6, pap.
- 101 —Report of the Surgeon General of the U. S. Navy; Je., 1884-85; Je., 1894-'99. Wash., 1885-99. 6 v., 9 x 6, pap.
- Report on barracks and hospitals, with descriptions of military posts. U. S.-Surgeon General's Office. (See La-8.)
- 88 —Report on epidemic cholera and yellow fever in the Army of the United States during the year 1867. U. S.-Surgeon General's Office. Wash., 1868. 156 pp., tab., 12 x 9, pap.
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- Report on vital and social statistics in the United States; John S. Billings, Expert Special Agent. 1894-96. (See Qc-11.6.)
- 40 —Typhoid fever statistics; from the principal cities of the United States and Europe. J. W. Hill. Cin., 1895. blue-print, 32 x 22, 8 pap.
- 1 **UTICA, N. Y.** Annual report of the Board of Health, comprising remarks on sanitary requirements, with returns of births, marriages and deaths; 2d; 1877. Utica, 1878. 1 v., 9 x 6, pap.
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- 14 **WASHINGTON, D. C.** Annual report of the Board of Health of the District of Columbia; 1877. (45th Cong., 2d Sess. House ex. doc. No. 1, Pt. 7.) Wash., 1878. 1 v., 9 x 6, pap.
- Annual reports of the Commissioners of the District of Columbia. (See Od40-2.1.)
- WORKSOP, ENG.** Report to the General Board of Health, on a preliminary inquiry into the sewerage, drainage and supply of water, and the sanitary condition of the inhabitants of the Town of Worksop, in the County of Nottingham. William Lee. 1851. (See Ec-28, p. 383.)
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- 16 **BALDWIN, W. J.** Baldwin on heating; or, Steam heating for buildings, revised; being a description of steam heating apparatus for warming and ventilating large buildings and private houses; with remarks on steam, water and air in their relation to heating. ed. 14, rev. and enl. N. Y., 1897. 8 + 356 pp., il., 6 pl., 8 x 5, cl.
- 18 —Outline of ventilation and warming. N. Y., 1899. 70 pp., il., por., 7 x 5, cl.
- 14 —Steam heating data. N. Y., 1897. 28 pp., 7 x 5, cl.
- 24 **BILLINGS, J. S.** Ventilation and heating. N. Y., 1893. 500 pp., il., 9 x 6, cl.
- 5 **BRIGGS, ROBERT.** Properties of air relating to ventilation and heating. Phil., 1881. 21 pp., 9 x 6, pap.
- Report on the plans for warming and ventilating the Bridgeport School-house; to the Building Committee of the Bridgeport (Conn.) High School. 1880. (See Jb-17.)
- Report on the ventilation of the Hall of Representatives and of the South Wing of the Capitol of the United States; to Joseph Henry, T. Lincoln Casey, J. S. Billings, Edward Clark, F. Schumann, Commission of Inquiry. 1876. (See Jb-20.)
- 23 —Steam heating: An exposition of the American practice of warming buildings by steam. (Van Nostrand's Science Ser.) N. Y., 1893. 108 pp., il., pl., 6 x 4, bds.
- BRIGGS, W. R.** Heating and ventilation of modern school buildings. 1899. (See Ja-74, p. 155.)
- 19 **BULL, MARCUS.** Experiments to determine the comparative value of the principal varieties of fuel used in the United States and also in Europe, and on the ordinary apparatus used for their combustion. Phil., 1827. 106 pp., pl., tab., 9 x 6, bds.
- 22 **BUTLER, W. F.** Ventilation of buildings. (Van Nostrand's Science Ser.) N. Y., 1873. 77 pp., il., pl., 6 x 4, bds.
- CORFIELD, W. H.** Dwelling houses; their sanitary construction and arrangements. (Van Nostrand's Science Ser.) 1880. (See Ja-84.)
- CURRIER, C. G.** Heating and ventilation in relation to hygiene. 1894. (See Eg-90, p. 160.)
- 25 **DERBY, GEORGE.** An inquiry into the influence of anthracite fires upon health; with remarks upon moisture and the best modes of warming houses. ed. 2, enl. Bost., 1868. 76 pp., 7 x 5, cl.
- ECKSTEIN, G. F.** Remarks on ventilation. 1852. (See Ja-20, p. 132.)
- 17 **HOOD, CHARLES.** Practical treatise on warming buildings by hot water; on ventilation, and the various methods of distributing artificial heat and their effects on animal and vegetable physiology; to which are added, an inquiry into the laws of radiant heat, the chemical combustion of coal, and the combustion of smoke. ed. 3, enl. Lond., 1855. 16 + 386 pp., il., 9 x 6, cl.
- 21 **LEEDS, L. W.** Treatise on ventilation; comprising seven lectures delivered before the Franklin Institute, Philadelphia, 1866-68, showing the great want of improved methods of ventilation in our buildings; giving the chemical and physiological process of respiration; comparing the effects of the various methods of heating and lighting upon the ventilation. ed. 2. N. Y., 1871. 226 pp., il., pl., 9 x 6, cl.
- LINCOLN, D. F.** Ventilation and heating of school-houses. 1886. (See Eg-56, p. 72.)
- 3 **LYNN, MASS.—SCHOOL COMMITTEE.** Report of the Committee on Sanitation; 1890. Lynn, 1890. 1 v., 9 x 6, pap.
- MOORE, ALEXANDER.** Ventilation in its relation to the use of gas for heating and lighting. 1871. (See Ia-2, p. 113.)
- 2 **MORIN, ARTHUR.** *Salubrité des habitations: Manuel pratique du chauffage et de la ventilation.* Paris, 1868. 148 pp., pl., 9 x 6, pap.
- 4 **NICHOLS, W. R.** Sanitary condition of the school houses. Bost., 1880. 12 pp., 9 x 6, pap. no title-page.
- PECLET, E.** *Nouveaux documents relatifs au chauffage et à la ventilation des établissements publics suivis de nouvelles recherches sur le refroidissement et la transmission de la chaleur pour servir de supplément à la seconde édition du "Traité de la chaleur."* 1854. (See Yl-64, p. 423.)
- Traité de la chaleur, considérée dans ses applications.* 1844. (See Yl-64.)
- PERCY, JOHN.** Report on the ventilation, warming and lighting of the Houses of Parliament. 1866. (See Jb-48, p. 707.)
- PHILBRICK, E. S.** Ventilation of buildings. 1881. (See Ea-1, p. 16.)
- RUMFORD, B. T., COUNT.** Observations concerning the salubrity of warm rooms in cold weather. 1875. (See Yl-7, v. 4, p. 567.)
- 8 **RICHARDS, C. B.** Account of some experiments made for the purpose of comparing the indications of two Cassella's air meters. Phil., 1875. 7 pp., pl., 9 x 6, pap.

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- 7 **RIETSCHEL, HERMANN.** Der Stand der wissenschaftlichen und praktischen Wohnungs-hygiene in Beziehung zur Luft: Rede zum Geburtsfeste seiner Majestät des Kaisers und Königs Wilhelm II, in der Aula der Königlichen technischen Hochschule. Ber., 1894. 19 pp., 11 x 8, pap.
- 15 **RUTTAN, HENRY.** Ventilation and warming of buildings; illustrated by fifty-four plates exemplifying the exhaustion principle; to which is added a complete description and illustration of the ventilation of railway carriages, for both winter and summer. N. Y., 1862. 12 + 106 pp., 54 pl., 10 x 8, cl.
- SAELTZER, ALEXANDER.** Treatise on acoustics in connection with ventilation; and an account of the modern and ancient methods of heating and ventilation. 1872. (See Y1-5.)
- 20 **SCHUMANN, F.** Manual of heating and ventilation, in their practical application, for the use of engineers and architects; embracing a series of tables and formulas for dimensions of heating, flow and return pipes, for steam and hot water boilers, flues, etc. N. Y., 1877. 89 pp., il., 7 x 5, mor.
- SMITH, C. A.** Steam heating. 1885. (See Gc-10, p. 286.)
- STIMERS, A. C.** Report on the ventilation of the Hall of the United States House of Representatives; Dec. 15th, 1868. 1869. (See Jb-25, p. 2.)
- TOMLINSON, CHARLES.** Rudimentary treatise on warming and ventilation; being a concise exposition of the general principles of the art of warming and ventilating domestic and public buildings, mines, light-houses, ships, etc. Lond., 1850. 260 pp., il., 7 x 4, b. p. Ja-2, p. 271.
- UNITED STATES—BUREAU OF STEAM ENGINEERING.** Report on D. C. Green's system of ventilation. Note: Proposed ventilation for ships. 1879. (See Kd-8.)
- UNITED STATES—JOINT SELECT COMMITTEE ON VENTILATION.** Report of the Committee appointed to examine into the present condition of the Senate Chamber and Hall of Representatives, as regards lighting, heating and ventilation, etc. (41st Cong., 3d Sess. House rep. No. 49.) 1871. (See Jb-27.)
- UNITED STATES—PRESIDENT.** Message, communicating, in compliance with a resolution of the Senate, information in relation to the heating and ventilating of the Capitol Extension, the Post Office Department, etc. (36th Cong., 1st Sess. Senate ex. doc. No. 20.) no place, 1860. 254 pp., 9 x 6, b. p. no title-page. Jb-48, p. 141.
- WALTER, T. H.** Report relative to warming and ventilating both Houses of Congress. (39th Cong., 1st Sess. House ex. doc. No. 100.) no place, 1866. 96 pp., pl., 9 x 6, b. p. no title-page. Jb-48, p. 465.

# BRIDGES.

## BRIDGES—GENERAL.

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- 123 **AMERICAN BRIDGE CO.** Album of designs of bridges, roofs, turntables, iron trestles, pneumatic and masonry sub-structures. Chic., no date. unpagcd, il., 28 pl., 21 x 16,  $\frac{3}{4}$  skiv.
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- 53 **STONE, E. H.** Determination of the safe working stress for railway bridges of wrought iron and steel. no place, 1898. 68 pp., 3 pl., 10 tab., 9 x 6, cl.
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- 82 **WHEILDON, W. W.** The Maverick Bridge: Argument before the U. S. Commissioners, at the Charlestown Navy Yard, Sept. 16th to Oct. 7th, 1868; with an appendix. Note: Relates to erection of a bridge across the water between the mainland in the city of Boston and East Boston. Charlestown, 1869. 40 pp., 9 x 6, pap.
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- 21 **BLACKFRIARS BRIDGE.** Views of the caissons and pile-driving machinery used in the construction of Blackfriars Bridge. Lond., 1787. 7 pl., 16 x 11,  $\frac{3}{4}$  cf. no title-page.
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- CHEMIN DE FER D'ORLEANS.** Ouvrages d'art principaux: 1<sup>o</sup>, Pont de Plessis-les-Tours, sur la Loire. 2<sup>o</sup>, Pont du Loir, près de Chateau-du-Loir. 3<sup>o</sup>, Pont de l'Huisne, près du Mans. Tours, no date. various pagings, il., 4 pl., 13 x 9, b. p. De-650, p. 65.
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- 3 **BELL, G. J.** Practical treatise on segmental and elliptical, oblique or skew arches; setting forth the principles and details of construction in clear and simple terms. Carlisle, Eng., 1896. 125 pp., 8 pl., 10 x 7, cl.
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- 18 **GRAEFF.** Appareil et construction des ponts biais. ed. 2. Paris, 1867. 2 v. in 1, pl., 12 x 9, 1/2 cf.
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- HUMBER, WILLIAM.** Calculation of stresses and strains in braced and unbraced arches. 1869. (See Fe-3, p. 48.)
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- MOSELEY, HENRY.** On the theory of the arch. 1843. (See Fa-5, v. 1, p. 169.)
- 51 **MÜLLER-BRESLAU, H. F. B.** Theorie und Berechnung der eisernen Bogenbrücken. Contents: v. 1, Die Stabförmigen elastischen Bögen. v. 2, Atlas. Ber., 1880. 2 v., pl., 9 x 6, pap.
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- 6 **STEELE, J. D.** Plans for arched highway bridges. no place, no date. 3 sheets, 15 x 20, pap. no title-page.
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- 30 **UNITED STATES—CORPS OF ENGINEERS.** Hollow brick; solution of equations and interpolation in series; foundations; arches in masonry bridges. Wash., 1880. 33 pp., il., pl., tab., 9 x 6, pap.
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- 12 **WERNER, E. A.** Maximum stresses from moving single loads in the members of three-hinged arches. Phil., 1892. 75 pp., 9 x 6, pap.
- 33 **WERNWAG, LEWIS.** Plate illustrating bridges erected by L. Wernwag. no place, 1813 (?) pl., 18 x 9, pap.
- 37 **WOODBURY, D. P.** Treatise on the various elements of stability in the well-proportioned arch; with numerous tables of the ultimate and actual thrust. (U. S. Corps of Engineers. Papers on Practical Engineering, No. 7.) N. Y., 1858. pp. 187-438, pl., 9 x 6, pap.
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- HIGH BRIDGE.** Drawings of details of Croton Aqueduct at High Bridge, and part of High Bridge. 1877 (?) (See Dc-983.)
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- NEUILLY, PONT DE.** Perronet. 1783. (See Fb-48, v. 1, p. 1.)
- 22 **NIAGARA FALLS & CLIFTON ARCH BRIDGE.** Die neue Strassenbrücke über den Niagara Fluss. F. C. Kunz. Wien, 1899. 18 pp., il., pl., 13 x 10, pap.
- 29 **NIAGARA FALLS STEEL ARCH RAILWAY BRIDGE.** Report on the construction of the steel arch bridge replacing the Niagara Railway Suspension Bridge. L. L. Buck. no place, 1899. pp. 125-177, il., pl., 9 x 6, pap.
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- ORLEANS, PONT D'.** Perronet. 1783. (See Fb-48, v. 2, p. 1.)
- 52 **PHILADELPHIA, PA.** Project for a brick bridge of three arches over the Schuylkill at Philadelphia. B. H. Latrobe. no place, 1802 (?) pl., 20 x 50, pap.
- RACON CREEK BRIDGE.** Iron bridge over Racoon Creek, Pennsylvania R. R. Herman Haupt. 1853. (See Fa-98, p. 247.)
- ST. LOUIS BRIDGE.** See Illinois & St. Louis Bridge.
- 23 **SANTA TRINITA, PONTE DI.** Bridge of the Santa Trinità over the Arno, at Florence; drawn and measured, and accompanied by explanatory remarks. Lewis Vulliamy. Lond., 1822. 8 pp., 4 pl., 19 x 13, cl.
- STEFANIE-BRÜCKE.** Stefanie-Brücke in Wien. Guido Zampis. 1886. (See Ca-2.3, p. 99.)
- 8 **TOPEKA BRIDGE.** Topeka Commercial Club, pub. Topeka, 1898. unpagged, il., pl., 7 x 9, pap.
- VICTORIA BRIDGE.** Widening the Victoria Bridge, Pimlico. W. H. Maw and James Dredge. 1872. (See Fa-60, p. 73.)
- WASHINGTON BRIDGE.** Contract and specifications for the construction of the Harlem River Bridge; and Act appointing Commissioners. Harlem River Bridge Commission. 1889. (See Fb-2, p. 49.)
- 9 —Harlem River Bridge; specifications for its construction. Harlem River Bridge Commission. no place, 1886. 22 pp., pl., 10 x 7, pap.
- 7 —Plan for the proposed Harlem River Bridge; awarded first prize by the Harlem Bridge Commission. C. C. Schneider. no place, 1886. sheet, 11 x 14, pap.
- 2 —Washington Bridge over the Harlem River, at 181st Street, New York City: A description of its construction. W. R. Hutton. N. Y., 1889. 90 pp., 43 pl., tab., 12 x 10, cl.
- 16 **WESTMINSTER BRIDGE.** Report; together with the proceedings of the Committee, minutes of evidence, appendix and index. Great Britain-Select Committee on Westminster Bridge. Note: Report on the permanency of piers protected with driven cast-iron piles. no place, 1856. 121 pp., pl., 13 x 8,  $\frac{1}{2}$  skiv.
- 17 —Report, 3d; together with the minutes of evidence, appendix and index. Great Britain-Select Committee on Westminster Bridge and New Palace. no place, 1847. 194 + 40 pp., pl., 13 x 8,  $\frac{1}{2}$  skiv.

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- 10 **DETROIT RIVER BRIDGE.** Proposed international railroad bridge over the Detroit River, at Detroit, Mich.; statement of physical and commercial conditions. E. L. Corthell, anon. Wash., 1896. 12 pp., pl., maps, 9 x 6, pap.
- 3 **ENGLISH CHANNEL BRIDGE.** Channel Bridge: Detailed description of the project for the construction of a bridge across the English Channel. Channel Bridge & Railway Co., pub. Lond., 1893. 166 pp., pl., maps, 10 x 7, pap.
- 14 **FORTH BRIDGE.** Bridging the Firth of Forth. Sir Benjamin Baker. Lond., 1887. 2 v., pl., 10 x 7, pap.
- Brief notices of works: Portland Harbor; the Severn Tunnel; the Forth Bridge; the River Clyde; the River Tyne; the Tower Bridge. L. F. Vernon-Harcourt. 1895. (See Cb-113.)
- 12 —The Forth Bridge. Sir Benjamin Baker. Lond., 1882. 35 pp., pl., 10 x 7, pap.
- 13 —The Forth Bridge. Sir Benjamin Baker. Lond., 1884. 47 pp., pl., 10 x 7, pap.

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- 2 —Forth Bridge. W. Westhofen, anon. ed. 3, rev. Lond., no date. 1 + 72 pp., il., 14 pl., por., facsim., 15 x 11, cl.
- 21 —Temperature movements of the south end of the bottom member of the Queensferry Cantilever. no place, no date. sheet, 10 x 38, pap. no title-page.

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- BAKER, SIR BENJAMIN.** Long-span railway bridges; comprising investigations of the comparative theoretical and practical advantages of the various adopted or proposed type systems of construction. 1867. (See Fe-1.)
- 20 **BENDER, CHARLES.** Illustrations of derrick and cantilever suspension bridges accompanying letter of Sept. 20th, 1875, addressed to the New York & Long Island Bridge Co. no place, no date. sheet, 14 x 24, pap.
- JOHNSON, J. B., C. W. BRYAN and F. E. TURNEAURE.** Theory and construction of cantilever bridges. 1893. (See Fa-117, p. 197.)
- 8 **McMILLAN, CHARLES.** Notes on the theory of cantilever bridges. no place, no date. 20 pp., pl., 9 x 6, pap.
- MERRIMAN, MANSFIELD, and H. S. JACOBY.** Cantilever bridges. 1898. (See Fa-112, v. 4, p. 75.)
- POPE, THOMAS.** Mathematical description of the flying pendent lever bridge, invented by Thomas Pope. 1811 (?) (See Fa-9, p. 203.)
- RITTER, AUGUST.** Elementare theorie und berechnung Eiserner Dach und Brücken-Construktionen. 1863. (See Fa-128.)
- 4 **SEDLEY'S PATENT IRON BRIDGE.** no place, no date. sheet, 17 x 27, pap. no title-page.
- WADDELL, J. A. L.** Cantilever bridges. 1899. (See Fa-13, p. 55.)
- KENTUCKY & INDIANA BRIDGE.** Map of Louisville, Ky., showing the Kentucky & Indiana Bridge and its connections. 1881. (See Qf-492.)
- 18 **LONG ISLAND BRIDGE.** Design for a bridge of long span. W. P. Trowbridge. no place, 1872 (?) 6 pp., pl., 9 x 6, pap.
- 17 —Examinations of the project of the New York & Long Island Bridge: A report presented to the President and Executive Committee of the New York & Long Island Bridge Co. Charles Bender. N. Y., 1875. 28 pp., 9 x 6, pap.
- 16 —Memorandum of the principal features of the plan proposed for the New York & Long Island Bridge. Flad & Pfeifer. St. Louis, 1875. 3 pp., 11 x 8, pap. no title-page.
- 19 —Report of the Board of Consulting Engineers appointed to recommend a plan for the New York & Long Island Bridge across the East River at Blackwell's Island. Octave Chanute and others. N. Y., 1877. 48 pp., 10 + 1 pl., 9 x 6, pap.
- 6 **MARKET STREET BRIDGE, PHILADELPHIA.** Sketch showing the feasibility of replacing the present Market Street Bridge, by an iron or steel "cantilever" bridge, exerting no thrust on the masonry, and using the old foundations. no place, no date. sheet, 11 x 26, pap.
- MIRABEAU, PONT.** Notice sur la construction du Pont Mirabeau. 1899. (See Yf-128, Exhibit I.)
- NEW YORK & NEW JERSEY BRIDGE.** Report. U. S.-Board of Engineers. 1894. (See Fg-16.)
- 22 **NIAGARA CANTILEVER BRIDGE.** Neue Niagarabrücke. C. C. Schneider. Ber., 1884. 3 pp., pl., 12 x 10, pap.
- PETERBOROUGH BRIDGE.** Bridge over the river Nene at Peterborough. W. H. Maw and James Dredge. 1872. (See Fa-60, p. 126.)
- 7 **POUGHKEEPSIE BRIDGE.** Charter and by-laws. Poughkeepsie Bridge Co., pub. Poughkeepsie, 1871. 20 pp., 9 x 6, pap.
- Charter of the Poughkeepsie Bridge Co., 1871, and amendments of 1872. New York-Legislature. 1875. (See Fh-40, p. 57.)
- 9 **QUEBEC RAILROAD BRIDGE.** Proposed bridge over the St. Lawrence at Quebec. Note: Bridge not built. Article reprinted from *Engineering* of Apr. 3d, 1885. Lond., no date. 12 pp., pl., 10 x 7, pap.
- REDHEUGH BRIDGE.** Account of the Redheugh Bridge. *The Engineer*. 1897. (See Fh-34.)
- 1 **SUKKUR BRIDGE.** Description of the Northwestern Ry. Bridge over the Indus at Sukkur. Lahore, 1889. 20 pp., 4 pl., phot., 10 x 6, cl.
- 15 —Views of the Sukkur Bridge. no place, 1889. unpagcd, map, phot., 17 x 15, ¾ mor. no title-page.
- 11 **WASHINGTON BRIDGE.** Report upon the construction of a high-level bridge over the Harlem River north of High Bridge, New York; made to the Commissioners of the Department of Public Parks, Dec., 1883. A. P. Boller. Note: Proposed plan. For all other material on Washington Bridge, see Bridges-Arch. N. Y., 1883. 24 pp., pl., 10 x 7, pap.



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- 42 **ALAMEDA CANAL BRIDGE.** Specifications, etc., for double drawbridge, etc., at Fruitvale Avenue, near Alameda, Cal. U. S.-Corps of Engineers. San Fran., 1899-1900. 2 v., pl., 14 x 8, pap. no title-page.
- 2 **ALBANY BRIDGE, 1857.** Additional testimony taken before the Committee in relation to the Albany Bridge. New York-(Assembly) Committee on Roads and Bridges. no place, 1856. 11 pp., 9 x 6, b. p.
- 2 —Answer of the defendant to the bill of complaint; with testimony of various witnesses. R. D. Silliman *vs.* the Hudson River Bridge Co. no place, 1856. 10 + 48 pp., 9 x 6, b. p. no title-page.
- 2 —Arguments of John H. Reynolds and N. Hill, Jr., Counsel for the Defendant, on motion by the Complainants for a preliminary injunction. R. D. Silliman *vs.* the Hudson River Bridge Co. Albany, 1856. 93 pp., 9 x 6, b. p.
- 20 —Circuit Court of the United States, Northern District of New York, in equity; Hudson River Bridge Co. at Albany: Acts, bills, answers, etc. R. D. Silliman *vs.* Hudson River Bridge Co. Albany, 1858. 95 + 482 pp., 9 x 6, sh.
- 2 —Facts proved by the depositions and affidavits of witnesses in relation to the proposed bridge at Albany, N. Y. R. D. Silliman *vs.* the Hudson River Bridge Co. no place, no date. 8 pp., 9 x 6, b. p. no title-page.
- 13 —In the Circuit Court of the United States for the Northern District of New York, in equity: Statement of case, abstract of pleadings, and facts claimed to be established on the part of the Defendant. R. D. Silliman *vs.* Hudson River Bridge Co. Albany, 1858. 84 pp., 10 x 7, pap.
- 14 —Information in relation to the plans and dimensions of the proposed bridge over the Hudson River at Albany, and of the areas of the channels, and quantities and velocity of the water in floods. G. E. Gray. Albany, 1856. 8 pp., 9 x 6, pap.
- Memorial on the subject of a bridge across the Hudson at Albany; with an appendix. Troy-Common Council. Troy, 1841. 38 pp., 9 x 6, b. p. Fg-6, p. 157.
- Notes in relation to the Genesee River at Rochester, the Albany Bridge, the Rock Island Bridge, and the water-works of Cuba. W. J. McAlpine. no date. (See Cb-221.)
- 2 —Opening argument of William A. Beach, on behalf of the Complainants. R. D. Silliman *vs.* the Hudson River Bridge Co. Troy, 1857. 69 pp., 9 x 6, b. p.
- Report of the Committee on the Establishment and Improvement of Roads and Bridges, and the Incorporation of Turnpike Companies, on the petitions and remonstrances relative to a bridge across the Hudson River opposite the City of Albany. no place, 1835. 4 pp., 9 x 6, b. p. no title-page. Cfh-10, p. 1057.
- Report of the Majority of the Committee, on the application for a bridge across the Hudson at Albany. New York-(Assembly) Committee on Roads and Bridges. no place, 1845. 151 pp., 9 x 6, b. p. Fg-6, p. 197.
- Report of the Minority of the Committee on petitions for, and remonstrances against, a bridge over the Hudson at Albany. New York-(Assembly) Committee on Roads and Bridges. Albany, 1841. 18 pp., 9 x 6, b. p. Cfh-15, p. 801.
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- 2 —Speeches of Counsel for the Petitioners, before the Senate Committee on Roads and Bridges in the matter of bridging the Hudson River at Albany. R. B. Van Valkenburgh and J. H. Reynolds. Albany, 1856. 23 pp., 9 x 6, b. p.
- 2 —Testimony of various witnesses in relation to the proposed bridge at Albany, N. Y. R. D. Silliman *vs.* the Hudson River Bridge Co. no place, 1856. 19 pp., 9 x 6, b. p.
- 1 —Testimony taken before the Commissioners appointed by the United States Circuit Court of the Northern District of New York, to hear evidence relating to the proposed bridge over the Hudson at Albany, N. Y. R. D. Silliman *vs.* the Hudson River Bridge Co. no place, 1857. 690 pp., 9 x 6, cf. no title-page.
- 22 —Testimony taken before the Committee in the matter of bridging the Hudson River at Albany. New York-(Senate) Committee on Roads and Bridges. no place, 1856. 303 pp., 9 x 6, b. p.
- ALTON BRIDGE.** Plates illustrating the construction of the Alton Bridge, St. C. M. & St. L. B. R. R. G. S. Morison. 1892. (See Fh-103.)
- Specifications for superstructure of bridge across the Mississippi River at Alton, Ill. G. S. Morison. 1893. (See Fh-67.)
- ATCHISON BRIDGE.** Amended specifications for an iron railway and highway bridge over the Missouri River at Atchison, Kan. W. W. Wright. 1873. (See Fh-68.)
- BRIDGEPORT HIGHWAY BRIDGE.** Plan for a highway bridge at Bridgeport, Conn. A. P. Boller. 1869. (See Fh-111.)
- 64 **CAMBRIDGE, MASS.** Argument before the Legislative Committee on Harbors, Mar. 25th, 1870, on the application of the City of Cambridge for a modification of the Act of 1869, requiring new draws in bridges over Charles and Miller's Rivers. H. W. Muzzey. Cambridge, 1870. 20 pp., 9 x 6, pap.

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- 26 **CENTRAL BRIDGE, NEW YORK.** Central Bridge over the Harlem River, New York City, and the approaches thereto, including the 155th St. Viaduct; 1890-95. no place, 1895. unpagcd, phot., 11 x 14, cl. no title-page.
- 41 **CHARLES RIVER BRIDGE.** The Ferry, the Charles River Bridge, and the Charles-town Bridge; Historical statement prepared for the Commission by its Chairman, and submitted at the opening of the new bridge, Nov. 27th, 1899. Boston-Transit Commission. Bost., 1899. 12 pp., 9 x 6, pap.
- 41 **CHARLESTOWN BRIDGE.** The Ferry, the Charles River Bridge, and the Charles-town Bridge; Historical statement prepared for the Commission by its Chairman, and submitted at the opening of the new bridge, Nov. 27th, 1899. Boston-Transit Commission. Bost., 1899. 12 pp., 9 x 6, pap.
- 46 **CHelsea STREET BRIDGE, BOSTON, MASS.** Contract and specifications for building a draw for Chelsea Street Bridge. Boston-Street Department. Bost., 1894. 20 pp., 10 x 8, pap.
- 47 — Contract and specifications for rebuilding Chelsea Street Bridge, East Boston to Chelsea. Boston-Street Department. Bost., 1894. 24 pp., 10 x 8, pap.
- 62 **CHENANGO CANAL BRIDGE.** Swing bridge; extension Chenango Canal. no place, 1871. pl., 35 x 30, pap. scale, 2 ft. to 1 in.
- 4 **DETROIT RIVER BRIDGE.** Bridge, or no bridge: Address to citizens at a meeting called by the Committee appointed by the Board of Trade; held at the City of Detroit on Tuesday, Apr. 7th, 1874. S. Mandelbaum and others. Detroit, 1874. 16 pp., 9 x 6, pap.
- 37 — Report of the Board of Engineers relative to the practicability of bridging the channels between Lake Huron and Lake Erie. U. S.-Corps of Engineers. (48d Cong., 1st Sess. House ex. doc. No. 64.) Wash., 1874. 69 pp., 9 x 6, pap.
- Reports relating to the Detroit River Bridge. U. S.-Corps of Engineers, comp. 1874. (See Fa-133, Report, 1874, p. 41.)
- 10 — Shall the waterway of the Great Lakes be obstructed by a bridge at Detroit? Remarks before the Committee on Commerce of the Senate of the United States, in opposition thereto. G. H. Ely. Cleveland, 1890. 30 pp., 9 x 6, pap.
- 48 **DOVER STREET BRIDGE, BOSTON, MASS.** Contract and specifications for building the steel superstructure. Boston-City Engineer. Bost., 1894. 24 pp., 10 x 8, pap.
- 61 — Contract and specifications for masonry piers. Boston-City Engineer. Bost., 1893. 23 pp., 10 x 8, pap.
- 8 **DUBUQUE BRIDGE.** Laws of the United States relating to the construction of bridges; the laws of Iowa and Illinois relating to the Dunleith and Dubuque Bridge. Dunleith and Dubuque Bridge Co. no place, 1864. 15 pp., 9 x 6, pap. no title-page.
- DULUTH DRAW BRIDGE.** Proceedings of the Board of Officers convened to consider the construction of a bridge in Duluth. U. S.-Corps of Engineers. 1892. (See Od60-3.1, Annual report, 1891, p. 79.)
- Report on bridging the canal across Minnesota Point, Duluth, Minn. A. P. Boller. 1890. (See Od60-3.1, Annual report, 1889, p. 95.)
- 60 **ESSEX STREET BRIDGE, BOSTON, MASS.** Specifications and contract for widening the opening for the passage of vessels through Essex Street Bridge, for the Cities of Boston and Cambridge. Boston-City Engineer. Bost., 1890. 24 pp., pl., 10 x 8, pap.
- 59 **FEDERAL STREET BRIDGE, BOSTON, MASS.** Contract and specifications for building two iron draws for the City of Boston. Boston-City Engineer. Bost., 1890. 19 pp., pl., 10 x 8, pap.
- 58 — Contract and specifications for rebuilding Federal St. Bridge for the City of Boston. Boston-City Engineer. Bost., 1890. 27 pp., pl., 10 x 8, pap.
- 7 **FORT POINT CHANNEL BRIDGE.** Specifications for an iron draw-bridge on Broadway, over Fort Point Channel, for the City of Boston. Boston-City Engineer. Bost., 1874. 9 pp., 9 x 6, pap.
- FULTON BRIDGE.** Report of the engineer on the proposed railroad bridge across the Mississippi River at Fulton, to connect the Galena and Chicago Union R. R. with the Chicago, Iowa & Nebraska R. R., the Lyons, Iowa, Central Air Line R. R., and the Dubuque, Fulton & Chicago R. R. C. L. McAlpine. 1858. (See Ae-169, p. 41.)
- GENERAL.**
- BECKER, MAX.** Der brückenbau in seinem ganzen Amfange und mit besonderer Rücksicht auf die neuesten Constructionen. 1882. (See V-45, v. 2.)
- \* **BLAINE, R. G.** Hydraulic machinery for bridges. 1897. (See Gb-1, p. 265.)
- 21 **HERSCHEL, CLEMENS.** Continuous revolving drawbridges: The principles of their construction and the calculation of the strains in them; with more especial reference to the designing of continuous panel girders of this description. Bost., 1875. 54 pp., 10 pl., 9 x 6, cl.
- JOHNSON, J. B., C. W. BRYAN and F. E. TURNEAURE.** Design of swing bridges. 1893. (See Fa-117, p. 357.)

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## GENERAL—(Continued).

- MERRIMAN, MANSFIELD, and H. S. JACOBY.** Swing and rolling draw-bridges. 1898. (See Fa-112, v. 4, p. 3.)
- NEW YORK—STATE ENGINEER AND SURVEYOR.** Report on movable bridges as used in Europe; by G. W. Rafter. 1895. (See Ff-2.)
- OSBORN, F. C.** Tables of moments of inertia and squares of radii of gyration; supplemented by others on the ultimate and safe strength of wrought-iron columns, safe strength of timber beams, and constants for readily obtaining the shearing stresses, reactions and bending moments in swing bridges. 1894. (See V-42.)
- QUINETTE DE ROCHEMONT, BARON E. T., and HENRI DESPREZ.** Ponts mobiles. 1896. (See Ce-155, v. 1, p. 593.)
- RZIHA, FRANZ.** Bewegliche Brücken. 1877. (See Ac-5, v. 2, p. 454.)
- SCHAUB, J. W.** Swing bridges. 1893. (See Fa-117, p. 179.)
- WADDELL, J. A. L.** Railroad and highway draw-spans. 1899. (See Fa-13, pp. 119, 183, 237.)
- 27 **WRIGHT, C. H.** The designing of draw-spans: Plate-girder draws; Riveted truss and pin-connected long-span draws. N. Y., 1898. 317 pp., il., pl., 9 x 6, cl.
- 54 **GRANITE BRIDGE, BOSTON, MASS.** Specifications and contract for widening the opening for the passage of vessels through Granite Bridge, for the City of Boston and the Town of Milton. Boston-City Engineer. Bost., 1889. 21 pp., pl., 10 x 8, pap.
- 44 **HARVARD BRIDGE, BOSTON, MASS.** Contract and specifications for iron railing. Boston-Commissioners of Harvard Bridge. Bost., 1889. 18 pp., pl., 10 x 8, pap.
- 43 — Contracts and specifications for roadway sheathing. Boston-Commissioners of Harvard Bridge. Bost., 1889. 18 pp., pl., 10 x 8, pap.
- INTERNATIONAL BRIDGE, BUFFALO, N. Y.** Description of the International Bridge constructed over the Niagara River near Fort Erie, Canada, and Buffalo, U. S. of America. Sir C. S. Gzowski. 1873. (See Fh-42.)
- Statutes of the State of New York and the Province of Canada in relation to the International Bridge across the Niagara River at Buffalo. 1858. (See Fh-66.)
- 29 **JOHNSON ST. BRIDGE, EAST SAGINAW, MICH.** Report relative to bridge proposed to be constructed over the Saginaw River; by F. Harlow. U. S.-Corps of Engineers. (45th Cong., 2d Sess. House ex. doc. No. 57.) Wash., 1878. 6 pp., pl., 9 x 6, pap. no title-page.
- KANSAS CITY BRIDGE.** Bridge over the River Missouri at Kansas City. W. H. Maw and James Dredge. 1872. (See Fa-60, p. 121.)
- With an account of the regimen of the Missouri River, and a description of methods used for founding in that river. Octave Chanute and G. S. Morison. 1870. (See Fh-116.)
- 28 **KÖNIGSBERG BRÜCKE.** Die Fundirung der Eisenbahnbrücke über den Pregel in Königsberg. H. Loeffler. Ber., 1867. 8 pp., il., 8 pl., 18 x 12, pap.
- 56 **L STREET BRIDGE, BOSTON, MASS.** Contract and specifications for building an abutment for L Street Bridge. Boston-Street Department. Bost., 1891. 18 pp., pl., 10 x 8, pap.
- 53 — Contract and specifications for building an iron draw for L Street Bridge. Boston-City Engineer. Bost., 1892. 22 pp., 10 x 8, pap.
- 57 — Contract and specifications for building L Street Bridge. Boston-City Engineer. Bost., 1891. 28 pp., 10 x 8, pap.
- 35 **LOUISIANA DRAW BRIDGE, MO.** Plan of the Louisiana Draw Bridge, built for the Chicago & Alton R. R. Co. Kellogg Bridge Co. no place, 1873. sheets, 20 x 45, pap. no title-page.
- 30 **MADISON AVENUE BRIDGE, NEW YORK.** Contract for building a bridge, with its appurtenances, over Harlem River, between One Hundred and Thirty-eighth Street and One Hundred and Thirty-ninth Street and Madison Avenue. New York-Department of Public Parks. no place, 187-. 18 + 2 pp., 14 x 9, pap.
- Form of proposal for building an iron bridge, and its piers and appurtenances across Harlem River, from One Hundred and Thirty-eighth Street in the Twenty-third Ward to a point near the intersection of One Hundred and Thirty-ninth Street and Madison Avenue. New York-Department of Public Parks. no place, 1876. 3 + 1 pp., 13 x 8, pap., b. p. no title-page. Bc-39, p. 79.
- 39 **MALDEN BRIDGE, BOSTON, MASS.** Malden Bridge to the people. Bost., 1829. 20 pp., 9 x 6, pap.
- MARKET STREET HIGHWAY BRIDGE, CHATTANOOGA, TENN.** Report of the Engineer and the Committees in regard to the proposed bridge over the Tennessee River, at Chattanooga; also the law affecting the building of bridges. Samuel Whinery. 1885. (See Fh-19.)



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- 38 **MILWAUKEE CANAL BRIDGE.** General specifications for a wrought-iron railway drawbridge, to be erected over canal in the City of Milwaukee, Wis. Chicago, Milwaukee & St. Paul Ry. Co. no place, 1878(?) unpagcd, 14 x 9, pap.
- 52 **NEPONSET BRIDGE, BOSTON, MASS.** Contract and specifications for widening the opening for the passage of vessels through Neponset Bridge. Boston-City Engineer. Bost., 1889. 24 pp., pl., 10 x 8, pap.
- 36 **NEWARK BAY BRIDGE.** Report on the Bay Bridge question; with the report of A. M. W. Ball to the House of Assembly of New Jersey. A. F. Sears. Newark, 1868. 19 pp., pl., 9 x 6, pap.
- NEWPORT & CINCINNATI BRIDGE.** Report of Board of Engineers on Newport & Cincinnati Bridge. U. S.-Corps of Engineers. 1870. (See Fh-8.)
- Report upon the Newport & Cincinnati Bridge. U. S.-Corps of Engineers. 1871. (See Fa-66, p. 38.)
- 45 **NORTH HARVARD STREET BRIDGE, BOSTON, MASS.** Specifications and contract for widening the opening for the passage of vessels through North Howard St. Bridge, for the Cities of Boston and Cambridge. Boston-City Engineer. Bost., 1890. 25 pp., pl., 10 x 8, pap.
- 40 **OAKLAND CANAL BRIDGE.** Specifications, etc., for constructing a steel highway draw-span across the tidal canal at Oakland Harbor, Cal. U. S.-Corps of Engineers. San Fran., 1899. 10 pp., pl., 14 x 8, pap. no title-page.
- PORTLAND BRIDGE.** Northern Pacific Railroad: Specifications for superstructure of bridge across the Willamette River at Portland, Ore. G. S. Morison. 1883. (See Fh-89.)
- QUINCY RAILWAY BRIDGE.** Account of the iron railway bridge across the Mississippi River at Quincy, Ill. T. C. Clarke. 1869. (See Fh-115.)
- 63 **ROCK ISLAND BRIDGE.** Abstract, pleadings and proof, and argument by N. B. Judd and G. C. Campbell, Counsel for Defendant, on final hearing, Nov. 1st, 1859; in the District Court of the United States for the State of Iowa. James Ward *vs.* Mississippi & Missouri R. R. Co. Chic., 1859. 203 + 51 pp., pl., 9 x 6, pap.
- Notes in relation to the Genesee River at Rochester, the Albany Bridge, the Rock Island Bridge, and the water-works of Cuba. W. J. McAlpine. no date. (See Cb-221.)
- 9 —Opinion of Judge M'Lean, delivered at Chicago, July, 1885. Railroad Bridge Co. *vs.* The United States. N. Y., 1885. 23 pp., 9 x 6, pap.
- 5 —Railroad bridge across the Mississippi River at Rock Island. U. S.-(House) Committee on Commerce. (35th Cong., 1st Sess. House rep. No. 250.) no place, 1858. 30 pp., 9 x 6, pap. no title-page.
- 6 —Report in relation to the railroad bridge over the Mississippi River at Rock Island. J. B. Jervis. N. Y., 1857. 57 pp., 9 x 6, pap.
- 15 —Report of the suit against the Rock Island Bridge; including all the testimony taken and used at the hearing, Aug. 19th, 1858; by the Reporter of the *Missouri Republican*. St. Louis, 1858. 61 pp., 9 x 6, pap.
- 16 —Rock Island Bridge case. James Ward *vs.* Mississippi & Missouri R. R. Co. no place, 1858 (?) unpagcd, 9 x 6, pap. newspaper slips.
- ROUSE'S POINT BRIDGE.** Report of the Committee on the subject of bridging Lake Champlain at Rouse's Point, Jan. 28th, 1851. New York-(Senate) Committee on Railroads. no place, 1851. 114 pp., map, 9 x 6, b. p. Ab-3, p. 217.
- Speech before a Committee of the Senate of New York, in Feb., 1850, against an application for a bridge at Rouse's Point, across Lake Champlain. G. R. Davis. Troy, 1850. 36 pp., 9 x 6, b. p. Fg-6, p. 351.
- Statement in regard to bridging Lake Champlain; showing the importance of the Canada trade to our canals; effects of a bridge upon that trade; Gen. Davis's speech against a bridge, etc.; with an appendix. Troy, 1851. 14 pp., 9 x 6, b. p. Ab-3, p. 201.
- 12 **RUSH STREET BRIDGE, CHICAGO.** New Rush Street Bridge, Chicago: A brief memoranda of its construction. Chic., 1884. 11 pp., maps, 10 x 8, pap.
- ST. JOSEPH BRIDGE.** Annual report of the Chief Engineer; 1st; 1872. St. Joseph Bridge Building Co. (See Fh-109.)
- Description of the method of founding the piers for the bridge over the Missouri River at St. Joseph, Mo. W. S. Pope. 1873. (See Fh-108.)
- Mémoir of the iron bridge over the Missouri River at St. Joseph, Mo., built in 1871-2-3. Detroit Bridge and Iron Works. 1873 (?) (See Fh-110.)
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- 31 —Advertisement, specifications, and proposals for building piers, abutments, wing walls, etc. Seekonk River Bridge Commission. Providence, 1884. 12 pp., 9 x 6, pap.

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- 32 —Annual report of the Commissioners, made to the General Assembly; 1886. Seekonk River Bridge Commission. Providence, 1887. 1 v., 9 x 6, pap.
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- THAMES RIVER BRIDGE, CONN.** New York, Providence & Boston R. R.: Report to the General Manager upon the construction of the Thames River Bridge and approaches, at New London, Conn. A. P. Boller. 1890. (See Fh-117.)
- THIRD AVENUE BRIDGE, NEW YORK, 1860.** Journal: Engineer's office, Harlem Bridge. W. J. McAlpine. 1860-61. (See Fe-7.)
- 49 **WEST BOSTON BRIDGE.** Specifications and contract for rebuilding a sidewalk and fence on West Boston Bridge for the Cities of Boston and Cambridge. Boston-City Engineer. Bost., 1891. 23 pp., pl., 10 x 8, pap.
- 51 **WESTERN AVENUE BRIDGE, BOSTON, MASS.** Contract and specifications for building a draw for Western Avenue Bridge to Watertown. Boston-City Engineer. Bost., 1893. 21 pp., 10 x 8, pap.
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- 35 **BOSTON, MASS.** Contract and specifications for building a bridge on Arborway, over Stony Brook. Department of Parks. Bost., 1893. 18 pp., 10 x 8, pap.
- 2 **BRITANNIA BRIDGE.** Britannia and Conway Bridges; with general inquiries on beams and on the properties of materials used in construction. Edwin Clark. Note: Published with the sanction and under the supervision of Robert Stephenson. Lond., 1850. 3 v., il., pl., 10 x 7, (pl. 26 x 20), cl.
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- 39 —Malleable iron bridges: Details of their construction, and summary of experiments; illustrated by the Britannia and Conway Tubular Bridges, and the tubular girder bridges at St. George's Landing Stage, Liverpool, and over the River Trent at Gainsborough. G. D. Dempsey. Lond., 1850. 24 pp., 11 x 8, cl.
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- 32 **BYRON STREET BRIDGE, BOSTON, MASS.** Contract and specifications for building a bridge on Byron Street, over B., R. B., & L. R. R. Boston-Street Department. Bost., 1889. 18 pp., pl., 10 x 8, pap.
- 19 **CASTLE ISLAND TEMPORARY BRIDGE.** Contract and specifications for building a temporary bridge to Castle Island. Boston-Department of Parks. Bost., 1891. 20 pp., pl., 10 x 8, pap.
- 2 **CONWAY BRIDGE.** Britannia and Conway Bridges; with general inquiries on beams and on the properties of materials used in construction. Edwin Clark. Lond., 1850. 3 v., il., pl., 10 x 7, (pl. 26 x 20), cl.
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- 18 **COTTAGE STREET FOOT-BRIDGE, BOSTON, MASS.** Contract and specifications for building a foot-bridge on Cottage Street, East Boston, for the City of Boston. Boston-City Engineer. Bost., 1889. 19 pp., pl., 10 x 8, pap.
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- 26 **ENTRE-OS-RIOS, PONTE DE.** Photographs illustrating the construction of the bridge. Porto, no date. phot., 26 x 20, cl.
- 34 **FERDINAND STREET BRIDGE, BOSTON, MASS.** Contract and specifications for building a retaining wall on Ferdinand Street. Boston-City Engineer. Bost., 1891. 20 pp., pl., 10 x 8, pap.
- 33 —Contract and specifications for building an iron bridge on Ferdinand Street, over B. & A. R. R. Boston-City Engineer. Bost., 1890. 18 pp., pl., 10 x 8, pap.
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- 23 **ALLAN, W.** Strength of beams under transverse loads. (Van Nostrand's Science Ser.) N. Y., 1875. 114 pp., il., 6 x 4, bds.
- 8 **BAKER, SIR BENJAMIN.** Diagrams giving weights of iron girders up to 200 feet span. Lond., no date. sheet, 22 x 30, pap.
- 1 —Long-span bridges; comprising investigations of the comparative theoretical and practical advantages of the various adopted or proposed type systems of construction. Lond., 1867. 84 pp., pl., 7 x 5, cl.
- BALTIMORE & OHIO R. R. CO.** Standard specifications for iron and steel bridges and viaducts. 1894. (See Fa-40.)
- 25 **BENDER, CHARLES.** Practical treatise on the properties of continuous bridges. (Van Nostrand's Science Ser.) N. Y., 1876. 150 pp., il., pl., 6 x 4, bds.
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- BOLLER, A. P.** Strains in girders and simple trusses. 1876. (See Fa-7, p. 97.)
- BOSTON & MAINE R. R. CO.** Standard specifications for metal bridges carrying tracks of the B. & M. R. R. 1896. (See Fa-41.)
- CLARKE, EDWIN.** Experiments on cylindrical and elliptical tubes. 1850. (See Fe-2, v. 1, p. 83.)
- COOPER, THEODORE.** General specifications for steel railroad bridges and viaducts. 1896. (See Fa-38.)
- 10 **DEMPSEY, G. D.** Examples of iron bridges for railway and other works, showing the details of construction as adopted in the application of cast and wrought iron; also comprising approved specimens of cast-iron, girder, trussed, and corrugated bridges, piling, etc. Lond., 1852. 24 pp., 11 x 9, pap.
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- DU BOIS, A. J.** The continuous girder. 1890. (See Fa-111, p. 139.)
- Graphic statics in their application to bridges: The simple girder and the continuous girder. 1875. (See Fa-110, p. 84.)
- HERSCHEL, CLEMENS.** Continuous revolving drawbridges: The principles of their construction and the calculation of the strains in them; with more especial reference to the designing of continuous panel girders of this description. 1875. (See Fd-21.)
- 3 **HUMBER, WILLIAM.** Handy book for the calculation of strains in girders and similar structures, and their strength; consisting of formulæ and corresponding diagrams, with numerous details for practical application. N. Y., 1869. 10 + 71 pp., 3 pl., 7 x 5, cl.
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- 4 **LATHAM, J. H.** Construction of wrought iron bridges; embracing the practical application of the principles of mechanics to wrought iron girder work. Cambridge, 1858. 21 + 282 pp., pl., tab., 9 x 6, cl.
- MELAN, J.** Theory of the stiffening girder. 1894. (See Fg-18, p. 71.)
- 16 **MERRIMAN, MANSFIELD.** On the flexure of continuous girders. no place, 1875. 12 pp., 9 x 5, pap. no title-page.
- 14 —On the moments and reactions of continuous girders. Phil., 1875. 23 pp., 9 x 6, pap.
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- 15 **MYERS, W. B.** "Schwedler" Bridge: A comparison of the various forms of girder bridges, showing the advantages of the "Schwedler" Bridge; together with an elucidation of the theoretical principles of the same. Lond., 1876. 23 pp., 3 pl., 9 x 6, pap.
- NEW YORK, LAKE ERIE & WESTERN R. R. CO.** General Specifications for iron bridges. 1879. (See Fa-42.)
- SHELFORD, WILLIAM, and A. H. SHIELD.** On some points for the consideration of English engineers with reference to the design of girder bridges. 1886. (See Fa-24.)
- 13 **SMITH, C. H.** Calculation of strains on members of girders continuous over supports: A paper prepared and read before the Engineers' Club of St. Louis. St. Louis, 1873. 8 pp., pl., 9 x 6, pap.
- SMITH, W. S., and others.** Report on the strength of iron girders and columns; made under the direction of the Committee on Girders and Columns, United States Board for Testing Iron, Steel, etc. 1881. (See Jc-58, v. 2, p. 215.)
- 9 **STONE, E. H.** Tables of quantities for small-span bridges and culverts; adapted to the conditions of railways in India on the 5 ft. 6 in. and metre gauge. Simla, 1893. 15 pp., tab., 21 x 13, cl.
- 21 **STONE, B. B.** Theory of strains in girders and similar structures; with observations on the application of theory to practice, and tables of the strength and properties of materials. ed. 2. Lond., 1869. 2 v., pl., 10 x 6, cl.
- SWAIN, G. F.** On the application of the principle of virtual velocities to the determination of the deflection and stresses of frames. 1883. (See Fa-100.)
- 2 **TATE, THOMAS.** On the strength of materials; containing various original and useful formulæ, especially applied to tubular bridges, wrought-iron and cast-iron beams, etc. Lond., 1850. 10 + 96 pp., 9 x 6, cl.
- 12 **TURNBULL, WILLIAM.** Essay, theoretical and practical, on the construction of the five architectural sections of cast-iron beams, generally employed as girders, bressummers, and other horizontal supports for buildings. Lond., 1833. 56 pp., 8 x 5, pap.
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- WINKLER, E.** Vorträge über Brückenbau. 1875. (See Fa-126.)
- 6 **KEHL BRIDGE.** Pont sur le Rhin à Kehl: Détails pratiques sur les dispositions générales et d'exécution de cet ouvrage d'art. Émile Vuigner and Fleur Saint-Denis. Paris, 1861. 2 v., pl., 11 x 9, 1/2 mor.
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- 31 —Contract and specifications for building the abutments of Leyden Street Bridge, over B., R. B., & L. R. R. Boston-City Engineer. Bost., 1889. 19 pp., pl., 10 x 8, pap.
- LUCERNE BRIDGE.** Pont construit à Lucerne en 1869-70. Jules Gaudard. Paris, 1873. 24 pp., pl., 9 x 5, b. p. Cb-233, p. 311.
- 27 **NOGAT BRÜCKE.** Die im Bau begriffenen Brücken über die Weichsel bei Dirschau und über die Nogat bei Marienburg; herausgegeben von dem Königlichen Ministerium für Handel, Gewerbe und öffentliche Arbeiten. Lentze. Ber., 1855. pl., 24 x 27, pap.
- 37 **ROCK CREEK BRIDGE.** Advertisement, instructions for bidders, specifications and proposal for building an aqueduct bridge over Rock Creek at Washington, D. C. Wash., 1889. 10 pp., 14 x 9, pap.
- 7 **THIRD AVENUE BRIDGE, NEW YORK, 1860.** Journal: Engineer's office, Harlem Bridge. W. J. McAlpine. Note: Data relating to the construction of the pneumatic foundations. N. Y., 1860-61. 258 pp., 13 x 8, cf. manuscript.
- 11 **VICTORIA BRIDGE.** A glance at the Victoria Bridge and the men who built it. Charles Legge. Montreal, 1860. 153 pp., map, 8 x 4, pap.
- Report on a survey for the railway bridge over the St. Lawrence at Montreal. T. C. Keefer. Montreal, 1853. 53 + 2 pp., 9 x 5, b. p. Ab-3, p. 1.
- 27 **WEICHSEL BRÜCKE.** Die im Bau begriffenen Brücken über die Weichsel bei Dirschau und über die Nogat bei Marienburg; herausgegeben von dem Königlichen Ministerium für Handel, Gewerbe und öffentliche Arbeiten. Lentze. Ber., 1855. pl., 24 x 27, pap.

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- 36 **WYANET BRIDGE.** Specifications, etc., for manufacture and erection of the superstructure of one steel railroad bridge near Wyanet, Ill. Illinois & Mississippi Canal. U. S.-Corps of Engineers. Chic., 1900. 8 pp., 14 x 8, pap. no title-page

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- MERRIMAN, MANSFIELD, and H. S. JACOBY.** Hinged and other forms of lift bridges. 1898. (See Fa-112, v. 4, p. 68.)
- 2 **NEW YORK—STATE ENGINEER AND SURVEYOR.** Report on movable bridges as used in Europe; by G. W. Rafter. Albany, 1895. 29 pp., 29 pl., 9 x 6, pap.
- RZIHA, FRANZ.** Bewegliche Brücken. 1877. (See Ac-5, v. 2, p. 454.)
- WADDELL, J. A. L.** Movable bridges in general. 1899. (See Fa-13, p. 103.)
- WRIGHT, C. H.** The designing of draw-spans: Plate-girder draws; riveted truss and pin-connected long-span draws. 1898. (See Fd-27.)
- 11 **HALSTEAD LIFT BRIDGE.** Drawings of the different parts of the Halstead Lift Bridge. no place, 1893. 6 sheets, various sizes, pap.
- 1 **SWAN HILL BRIDGE.** Lift bridge over the Murray at Swan Hill. Percy Allen. no place, 1896. pp. 90-109, 4 pl., 8 x 5, pap.
- TOWER BRIDGE.** Brief notices of works; Portland Harbor; the Severn Tunnel; the Forth Bridge; the River Clyde; the River Tyne; the Tower Bridge. L. F. Vernon-Harcourt. 1895. (See Cb-113.)

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- CLIFTON SUSPENSION BRIDGE.** Description of the Clifton Suspension Bridge, Niagara Falls. W. H. Maw and James Dredge. 1872. (See Fa-60, p. 102.)
- 15 — Report to the President and Directors of the Niagara Falls Suspension Bridge Co., and to the President and Directors of the Clifton Suspension Bridge Co. Samuel Keefer. Rockville, Ont., 1869. 34 pp., 9 x 6, pap.
- 12 **CONWAY SUSPENSION BRIDGE.** Description of the iron bridges of suspension now erecting over the Strait of Menai, at Bangor, and over the River Conway, in North Wales; also some account of the different bridges of suspension in England and Scotland. T. G. Cumming. Lond., 1824. 55 pp., pl., 9 x 6, pap.
- 5 **COVINGTON & CINCINNATI SUSPENSION BRIDGE.** Act to confirm the charter of the Covington & Cincinnati Bridge Co., passed Feb. 17th, 1846. Kentucky-General Assembly. no place, 1849. 8 pp., 7 x 4, b. p. no title-page.
- 9 — Annual report of the President and Directors to the Stockholders; 1867. Trenton. 1867. 1 v., 9 x 6, pap.
- Cincinnati Suspension Bridge. W. H. Maw and James Dredge. 1872. (See Fa-60, p. 159.)
- 8 — Full and complete description of the Covington & Cincinnati Suspension Bridge; with dimensions and details of construction. E. F. Farrington. Cin., 1867. 17 pp., pl., 6 x 4, pap.
- Report and plan for a wire suspension bridge, proposed to be erected over the Ohio River at Cincinnati. J. A. Roebling. 1851. (See Fg-5, p. 457.)
- Report to the President and Board of Directors of the Covington & Cincinnati Bridge Co., Apr. 1st, 1867. J. A. Roebling. (See Fg-9, Annual report, 1867, p. 11.)

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- BAKER, SIR BENJAMIN.** Long-span railway bridges; comprising investigations of the comparative theoretical and practical advantages of the various adopted or proposed type systems of construction. 1867. (See Fe-1.)
- 14 **BENDER, C. B.** Suspension bridges of any desired degree of stiffness; or, Theory of equilibrium of a loaded elastic beam suspended from an elastic parabolic catenary. Lond., 1881. 17 pp., 12 x 8, pap.
- BOVEY, H. T.** Suspension bridges. 1882. (See V-87, v. 2, p. 75.)
- 108 **BUSCHMANN, H. B.** Beiträge zur Theorie der combinirten Gitter- und Hänge-Brücken. Wien, 1873. 26 pp., pl., 9 x 6, bds.
- DREDGE'S SUSPENSION BRIDGE,** Mathematical principles of. 1843. (See Fa-5, v. 1, p. 381.)
- 1 **DREWRY, C. S.** Memoir on suspension bridges; comprising the history of their origin and progress, and of their application to civil and military purposes, with description of some of the most important bridges. Lond., 1832. 211 pp., pl., 9 x 6, bds.

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- EDDY, H. T.** New constructions in graphical statics. Note: Discussion of the stability of all forms of the arch, flexible or rigid, by means of the equilibrium polygon. 1877. (See Fb-28.)
- 10 **FOX, SIR CHARLES.** On the size of pins for connecting flat links in the chains of suspension bridges. no place, 1865. 6 pp., 9 x 6, pap.
- 104 **HILDENBRAND, WILHELM.** Cable-making for suspension bridges, with special reference to the cables of the East River Bridge. (Van Nostrand's Science Ser.) N. Y., 1877. 121 pp., il., pl., 6 x 4, bds.
- HUMBER, WILLIAM.** Ordinary suspension bridge of one span with a uniform horizontal load. 1869. (See Fe-3, p. 51.)
- Short discussions on the suspension bridge. 1857. (See Fa-58, p. 83.)
- JOHNSON, J. B., C. W. BRYAN and F. E. TURNEAURE.** Theory and construction of suspension bridges. 1893. (See Fa-117, p. 167.)
- LATHAM, J. H.** Stresses and strains in a common suspension bridge. 1858. (See Fe-4, p. 231.)
- 107 **MEMOIRE SUR LES PONTS SUSPENDUS** et notice sur le Pont des Invalides. Note: Text wanting. no place, no date. 1 v., pl., 14 x 25, bds.
- MERRIMAN, MANSFIELD, and H. S. JACOBY.** Suspension bridges. 1898. (See Fa-112, v. 4, p. 112.)
- MÜLLER, H.** Die Brückenbaukunde in ihrem ganzen Umfange: Ein Handbuch für Ingenieure und Baumeister. no date. (See Fa-56.)
- POPE, THOMAS.** Treatise on bridge architecture. Note: Contains descriptions of various chain bridges. 1811 (?) (See Fa-9.)
- 7 **PORTET, L.** Traité élémentaire des ponts suspendus, contenant les démonstrations élémentaires de toutes les formules en usage et l'application numérique de ces formules. Montpellier, 1862. 292 pp., pl., 9 x 6, pap.
- RITTER, AUGUST.** Elementare Theorie und Berechnung eiserner Dach- und Brücken-Constructionen. 1863. (See Fa-128.)
- 90 **ROEBLING, J. A.** Long and short-span railway bridges. N. Y., 1869. 50 + 1 pp., por., 13 pl., facsim., 20 x 14, cl.
- RUPPERT, CARL VON.** Schulcht-Brücke. 1867. (See Fb-26, p. 30.)
- 3 **SEGUIN.** Des ponts en fil de fer. ed. 2. Paris, 1826. 115 + 1 pp., pl., 10 x 8, pap.
- 2 **TURNBULL, WILLIAM.** Dredge's suspension bridge explained upon the principles of the lever; to which are added a specification of the quantities of material used in the suspension bridge at Balloch Ferry, Dumbartonshire, and an isometrical projection, by James Dredge. Lond., 1841. 64 pp., pl., 9 x 6, cl.
- 18 **UNITED STATES—CORPS OF ENGINEERS.** Report of Board of Engineer Officers as to maximum span practicable for suspension bridges. Wash., 1894. 109 pp., pl., 9 x 6, pap.
- WARE, SAMUEL.** Principles of pendent bridges with reference to the properties of the catenary applied to the Menai Bridge; also a theoretical investigation of the catenary. 1822. (See Fa-14, p. 177.)
- GEORGETOWN SUSPENSION BRIDGE.** Report on a suspension bridge across the Potomac for railroad and common travel; addressed to the Mayor and City Council of Georgetown, D. C. Charles Ellet, Jr. Note: Not built. Phil., 1852. 36 pp., pl., 9 x 6, b. p. Fd-2, p. 587.
- HAMBURG STRASSEN BRÜCKE.** Die Strassenbrücke über die Norder-Elbe bei Hamburg, erbaut in den Jahren 1884-1887, von dem Ingenieurwesen der Bau-Deputation des Hamburgischen Staates, Oberingenieur F. Andreas Meyer; nach amtlichen Quellen dargestellt. C. O. Gleim and H. Engels. 1890. (See Fh-77.)
- 92 **HUDSON HIGHLAND SUSPENSION BRIDGE.** Hudson Suspension Bridge and New England Ry. Co. Note: A proposed bridge to be built over the Hudson River near Peekskill. no place, 1880. 21 pp., pl., map, 11 x 7, pap.
- 11 —Report on the location of the Hudson Highland Suspension Bridge, by E. W. Serrell, Chief Engineer. N. Y., 1868. 33 pp., 9 x 6, pap. no title-page.
- ILLINOIS & ST. LOUIS BRIDGE.** Plan of a bridge over the Mississippi River, at St. Louis. J. A. Roebling. Note: Proposed plan; for other material on the St. Louis Bridge, see Bridges—Arch. 1869. (See Fg-90, p. 40.)
- Report and plan for a wire suspension bridge, proposed to be constructed across the Mississippi at St. Louis. Charles Ellet, Jr. Phil., 1840. 59 pp., pl., 12 x 9, b. p. Da-65, p. 89.
- 12 **MENAI SUSPENSION BRIDGE.** Description of the iron bridges of suspension now erecting over the Strait of Menai, at Bangor, and over the River Conway, in North Wales; also some account of the different bridges of suspension in England and Scotland. T. G. Cumming. Lond., 1824. 55 pp., pl., 9 x 6, pap.



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- 106 — Historical and descriptive account of the suspension bridge constructed over the Menai Strait in North Wales; with a brief notice of Conway Bridge; from designs by, and under the direction of Thomas Telford. W. A. Provis. Lond., 1828. 105 pp., 17 pl., 27 x 20, bds.
- Principles of pendent bridges with reference to the properties of the catenary, applied to the Menai Bridge; also a theoretical investigation of the catenary. Samuel Ware. 1822. (See Fa-14, p. 177.)
- 5 **MIDDLETOWN RY. SUSPENSION BRIDGE.** Opinions and affidavits relating to the plan for a railway suspension bridge at Middletown. Hartford, 1849. 12 pp., map, 9 x 6, b. p.
- Report on a railway suspension bridge across the Connecticut, at Middletown; with a proposal for its construction, to a Committee of the Citizens of Hartford. Charles Eliet, Jr. 1851. (See Fg-5, p. 236.)
- 19 **MOHAWK BRIDGE.** In the Supreme Court of the State of New York: Writ of *certiorari*. Mohawk Bridge Co. vs. The People. Schenectady, 1872. 58 + 1 pp., pl., 10 x 7, pap.
- Report on the petition of the Mohawk Bridge Co. praying for an act to prevent the Utica & Schenectady R. R. Co. from erecting a bridge across the Mohawk River at Schenectady. New York-Assembly Committee on Judiciary. no place, 1836. 5 pp., 9 x 6, b. p. no title-page. Cfh-12, p. 835.
- 22 **NEW YORK & BROOKLYN BRIDGE.** Acts of the State of New York, and of the United States, in relation to the N. Y. & B. Bridge. no place, 1869. 27 pp., 9 x 6, b. p.
- 31 — Affidavits on behalf of Defendants on motion for injunction. A. B. Miller vs. the Mayor, etc., of New York, and others. Note: Injunction sought to prevent the erection of the bridge. Brooklyn, 1876. 31 pp., 11 x 7, pap.
- 22 — Annual reports of the Chief Engineer and General Superintendent; 1st-3d. New York Bridge Co. Brooklyn, 1870-72. 3 v., 9 x 6, b. p.
- 20 — Argument of W. N. Dykman for Defendants; J. E. DuBois vs. The Mayor, Aldermen, etc., of New York and the City of Brooklyn. Note: Suit to determine whether the process used in constructing the piers of the Brooklyn Bridge was invented by J. E. DuBois. no place, no date. 59 pp., 10 x 7, b. p. no title-page.
- 20 — Brief for Claimant. J. E. DuBois vs. The Mayor, Aldermen, etc., of New York and the City of Brooklyn. N. Y., 1892. 2 + 122 pp., 10 x 7, b. p.
- 43 — By-laws. New York Bridge Co. no place, 1870 (?) 11 pp., 7 x 5, pap.
- 44 — Same. Brooklyn, 1875. 8 pp., 7 x 5, pap.
- 104 — Cable-making for suspension bridges, with special reference to the cables of the East River Bridge. Wilhelm Hildenbrand. (Van Nostrand's Science Ser.) N. Y., 1877. 121 pp., il., pl., 6 x 4, bds.
- 25 — The cable railway on the N. Y. & B. Bridge. Gabriel Leverich. N. Y., 1888. pp. 67-102, 30 pl., 9 x 6, cl.
- 29 — Cable railway: Profile of tracks. no place, 1890. pl., 13 x 38 pap.
- 42 — Communication from the Chief Engineer relative to the estimates of cost of elevated tracks and platforms, etc., at the termini of the bridge, Feb. 16th, 1882. no place, 1882. 7 pp., 9 x 6, pap.
- 22 — Communication from Chief Engineer W. A. Roebling, in regard to the method of steam transit over the East River Bridge, made to the Board of Trustees, Mar. 4th, 1878. no place, 1878. 15 + 1 pp., pl., 9 x 6, b. p. no title-page.
- 38 — Communication to the Board of Aldermen of the City of New York, by the President of the Board of Trustees, Feb. 3d, 1876. Brooklyn, 1876. 19 pp., 9 x 7, pap.
- 22 — Documents relating to the approaches of the bridge. no place, 1877. 7 pp., 9 x 6, b. p. no title-page.
- 22 — The effects of high atmospheric pressure, including the caisson disease. A. H. Smith. Note: A presentation of the author's experience as Surgeon to the New York Bridge Co., during the sinking of the second caisson. Brooklyn, 1873. 43 pp., 9 x 6, b. p.
- 32 — Extension of the cable driving plant: Specifications for steam boilers. no place, 1891. unpag., 14 x 9, pap. no title-page.
- 40 — Extension of the cable driving plant: Specifications for structural iron work. no place, 1891. unpag., 14 x 9, pap. no title-page.
- 21 — A few facts about the caissons of the East River Bridge. Francis Collingwood. no place, 1871. pp. 353-366, 9 x 6, b. p. no title-page.
- 21 — Further notes on the caissons of the East River Bridge. Francis Collingwood. no place, 1872. pp. 119-146, 9 x 6, b. p. no title-page.
- 21 — Notes on the masonry of the East River Bridge. Francis Collingwood. no place, 1876. 27 pp., pl., 9 x 6, b. p. no title-page.
- 26 — Opening ceremonies of the N. Y. & B. Bridge, May 24th, 1883. Brooklyn, 1883. 122 pp., pl., 9 x 7, cl.

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- 24 — Plans for the enlargement of traffic facilities on the N. Y. & B. Bridge. no place, 1888 (?) various pagings, il., pl., 9 x 6, cl.
- 39 — Plans of the Rapid Transit Cable Co. for system and terminals. no place, 1890. 23 pp., il., 6 pl., 9 x 6, pap.
- Plates illustrating socket for suspenders. no place, no date. 2 pl., 13 x 18, b. p. no title-page. Bc-39, p. 99.
- 35 — Plates illustrating the sections of the New York Caisson of the Hudson River Tunnel, and cross section of the N. Y. & B. Bridge. no place, 1882. sheet, 18 x 14, pap.
- 20 — Pleadings, evidence, etc. *J. E. DuBois vs. The Mayor, Aldermen, etc., of New York and the City of Brooklyn*. Brooklyn, 1892. 383 pp., 10 x 7, b. p.
- 22 — Pneumatic tower foundations of the East River Suspension Bridge. W. A. Roebling. Brooklyn, 1872. 92 pp., il., pl., 9 x 6, b. p.
- 22 — Proceedings of the Board of Trustees in relation to the material used for the superstructure of the bridge. no place, 1882. 5 pp., 9 x 6, b. p.
- 22 — Proceedings of the Board of Trustees in relation to the methods of conveying the cars to be employed on the bridge railway. no place, 1882. 8 pp., 9 x 6, b. p.
- 22 — Proceedings of the Board of Trustees in relation to the use of the roadway of the bridge as a means of rapid transit between the two cities. no place, 1878. 15 pp., 9 x 6, b. p. no title-page.
- 21 — Progress of work at the East River Bridge. Francis Collingwood. no place, 1879. pp. 162-172, 9 x 6, b. p. no title-page.
- Proposals and specifications for supplying southern yellow pine and white oak lumber for the floor of the N. Y. & B. Bridge. no place, 1878. 3 pp., 14 x 8, b. p. no title-page. Bc-39, p. 87.
- 76 — Proposals for paint. Brooklyn, 1882. unpagcd, 14 x 8, pap. no title-page.
- 77 — Proposals for white pine and spruce lumber. no place, 1882. 2 pp., 14 x 8, pap. no title-page.
- Report of the Board of Consulting Engineers to the Directors of the New York Bridge Co. Horatio Allen and others. no place, 1869. 15 pp., 9 x 6, b. p. Dc-442, p. 653.
- 36 — Report of the Board of Experts, on terminal facilities, Jan. 10th, 1891; report of the Committee on improved traffic facilities; and extracts from the minutes of the Board of Trustees, Jan. 20th, 1891. no place, 1891. 15 pp., 5 pl., 9 x 6, pap.
- 103 — Report of the Chief Engineer; 1876. Brooklyn, 1877. 1 v., 9 x 6, pap.
- 22 — Report of the Chief Engineer, on prices of materials and estimated cost of the structure. New York Bridge Co. no place, 1872. 15 pp., 9 x 6, b. p.
- 22 — Report of the Chief Engineer on the strength of the cables and suspended superstructure of the bridge, made to the Board of Trustees, Jan. 9th, 1882. Brooklyn, 1882. 12 pp., pl., 9 x 6, b. p.
- 23 — Report of the Committee appointed by the Board of Trustees, consisting of the Mayors of the Cities of New York and Brooklyn; together with the report of the Accountants to said Committee, in the matter of an examination of the financial affairs of the N. Y. & B. Bridge, Dec. 31st, 1883. Brooklyn, 1884. 800 + 6 pp., il., 9 x 6, cl.
- 37 — Report of the Committee on Terminals, Sept. 12th, 1892. no place, 1892. 10 pp., 9 x 6, pap.
- 22 — Report of the Executive Committee of the East River Bridge, on the cost of the structure and land. New York Bridge Co. Brooklyn, 1873. 2 pp., 9 x 6, b. p.
- 46 — Report of the General Superintendent; 4th; 1873. New York Bridge Co. Brooklyn, 1873. 1 v., 9 x 6, pap.
- 45 — Report of the officers of the New York Bridge Co., to the Board of Directors; 1875. Brooklyn, 1875. 1 v., 9 x 6, pap.
- 22 — Report of the Special Committee appointed to confer with the President of the Edge Moor Iron Co., with reference to their contracts for steel work. no place, 1882. 7 pp., 9 x 6, b. p.
- 48 — Report of the Treasurer; 1874-85. Brooklyn, 1877-86. 11 v. in 8, 9 x 6, pap.
- 49 — Report of the Trustees; 1885, '87-97. no place, 1885-97. 12 v., 9 x 6, pap.
- 22 — Report to the President and Directors of the New York Bridge Co., on the proposed East River Bridge. J. A. Roebling. Brooklyn, 1870. 35 pp., 9 x 6, b. p.
- 47 — Reports of the Executive Committee and Treasurer; 1872-74. New York Bridge Co. Brooklyn, 1872-74. 3 v., 9 x 6, pap.
- 34 — Reports on plans for the enlargement of traffic facilities. no place, 1888. 42 pp., il., 9 x 6, pap.
- 68 — Specifications for American hydraulic cement for the N. Y. & B. Bridge. no place, 1878. unpagcd, 14 x 8, pap.
- 53 — Specifications for anchor plates, Brooklyn Anchorage, East River Bridge. no place, 1872. 2 pp., 14 x 8, pap. no title-page.

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- 54 — Specifications for building and launching the wooden caisson for the foundation of the New York Tower of the East River Bridge. no place, no date. 13 pp., 14 x 8, pap. no title-page.
- 83 — Specifications for building warehouses in the arches of the New York approach of the East River Bridge. no place, 1883. various pagings, 14 x 8, pap.
- 62 — Specifications for cast-iron wire rope sockets for the suspenders of the East River Suspension Bridge. no place, 1877. 1 p., 14 x 8, pap. no title-page.
- 75 — Specifications for certain steel work required for the completion of the suspended superstructure of the East River Bridge. no place, 1881. 8 pp., 14 x 8, pap.
- 59 — Specifications for corners, facing and arch-stone, of granite, required for the New York Anchorage, East River Bridge. no place, 1875. unpagcd, 14 x 8, pap. no title-page.
- Specifications for cut face-stone and backing, limestone and granite, required for the Brooklyn Anchorage, East River Bridge. no place, 1873. 3 pp., 14 x 8, b. p. no title-page. Bc-39, p. 157.
- 57 — Same. no place, 1874. 4 pp., 14 x 8, pap. no title-page.
- 58 — Specifications for cut face-stone, backing and arch-stone of limestone, required for the New York Anchorage, East River Bridge. no place, 1875. unpagcd, 14 x 8, pap. no title-page.
- Specifications for cut granite face-stone, required for the Brooklyn Tower, East River Bridge. no place, 1872. 3 pp., 14 x 8, b. p. no title-page. Bc-39, p. 165.
- 55 — Specifications for cut granite face-stone, required for the New York Tower, East River Bridge. no place, 1873. 3 pp., 14 x 8, pap. no title-page.
- 66 — Specifications for galvanized iron wire for cable wrapping, for the East River Bridge. no place, 1878. 3 pp., 14 x 8, pap.
- 60 — Specifications for granite cut stone, required for the parapets at the roadway, Brooklyn and New York Towers, East River Bridge. no place, 1876. 4 pp., 14 x 8, pap.
- 30 — Specifications for granite face, arch and other stone, required for the New York and Brooklyn approaches to the East River Bridge. no place, 1877. 8 pp., 14 x 8, pap.
- 51 — Specifications for granite face-stone, required for the Brooklyn Tower, East River Bridge. no place, 1871. 3 pp., 14 x 8, pap. no title-page.
- 71 — Specifications for granite paving blocks, East River Bridge approaches. no place, 1880. unpagcd, 14 x 8, pap.
- 52 — Specifications for iron anchor bars, Brooklyn Anchorage, East River Bridge. no place, 1872. 2 pp., 14 x 8, pap.
- 86 — Same. no place, 1874. 5 pp., 14 x 8, pap.
- Specifications for iron anchor bars, New York Anchorage, East River Bridge, Apr., 1875. no place, no date. 4 pp., 14 x 8, b. p. no title-page. Bc-39, p. 135.
- 82 — Specifications for laying flag and curb stones on streets about the approaches of the N. Y. & B. Bridge. no place, 1883. unpagcd, 14 x 8, pap. no title-page.
- 61 — Specifications for steel cable wire for the East River Suspension Bridge. no place, 1876. 6 pp., 14 x 8, pap. no title-page.
- 70 — Specifications for steel suspenders, connecting rods, stirrups and pins for the East River Suspension Bridge. no place, 1880. 4 pp., 14 x 8, pap.
- 72 — Specifications for steel wire ropes for the over-floor stays and storm cables of the East River Suspension Bridge. no place, 1880. 5 pp., 14 x 8, pap.
- Specifications for steel wire ropes for the suspenders of the East River Suspension Bridge. no place, 1877. 2 pp., 14 x 8, b. p. no title-page. Bc-39, p. 97.
- 78 — Specifications for steel wire traction ropes for the N. Y. & B. Bridge. no place, 1882. unpagcd, 14 x 8, pap.
- 65 — Specifications for steel wire working rope for the East River Suspension Bridge. no place, 1878. unpagcd, 14 x 8, pap.
- 87 — Specifications for the Brooklyn Terminal Station. no place, 1893. 20 pp., 14 x 8, pap.
- 73 — Specifications for the construction of a bridge on the line of the East River Bridge, across Franklin Square, in the City of New York. no place, 1880. 9 pp., 14 x 8, pap.
- 81 — Specifications for the construction of the station building and elevated platform at the New York end of the East River Bridge. no place, 1882. 12 + 4 pp., 14 x 8, pap.
- 80 — Specifications for the design and construction of passenger cars for the railway of the N. Y. & B. Bridge. no place, 1882. unpagcd, 14 x 8, pap.
- 33 — Specifications for the extension of the cable driving plant, exclusive of the steam engine and the friction clutches. no place, 1891. unpagcd, 14 x 9, pap.
- 84 — Specifications for the extension of the roadways at New York Station. no place, 1891. unpagcd, 14 x 8, pap. no title-page.



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- 67 — Specifications for the iron work of the suspended superstructure of the East River Bridge. no place, 1878. 36 pp., 14 x 8, pap.
- 88 — Specifications for the reconstruction of the New York Terminal Station. no place, 1893. 10 pp., 14 x 8, pap.
- 79 — Specifications for the rope driving machinery for operating the railway of the N. Y. & B. Bridge. no place, 1882. 11 pp., 14 x 8, pap.
- 69 — Specifications for the steel and iron work of the suspended superstructure of the East River Bridge. no place, 1879. 7 pp., 14 x 8, pap.
- 74 — Specifications for the wrought iron superstructure of street bridges, Brooklyn approach, East River Bridge. no place, 1880. 6 pp., 14 x 8, pap.
- Specifications for timber for New York Anchorage, East River Bridge. no place, no date. 1 p., 14 x 8, b. p. no title-page. Bc-39, p. 139.
- 64 — Specifications for wrought iron cable bands and bolts for the suspenders of the East River Suspension Bridge. no place, 1877. unpag., 14 x 8, pap.
- 85 — Specifications of a steam engine for the extension of the cable driving plant. no place, 1891. unpag., 14 x 8, pap. no title-page.
- 86 — Specifications of friction clutches, for the extension of the cable driving plant. no place, 1891. unpag., 14 x 8, pap. no title-page.
- 50 — Specifications of iron work, New York Caisson, East River Bridge. no place, 1870. 17 pp., 14 x 8, pap.
- 105 — Superintendent's Department: Transactions; 1888. Note: Contains synopsis of transactions for the five years, ending May 31st, 1888. no place, 1888. 1 v., 14 x 16, pap.
- 27 — Testimony taken by the Committee, in relation to the N. Y. & B. Bridge. New York-(Assembly) Committee on Commerce and Navigation. Albany, 1879. 602 + 791 pp., 9 x 6, pap.
- 41 — To the Trustees of the N. Y. & B. Bridge in relation to the application of elevated railroads for permission to cross the bridge, May 9th, 1896: Reports of Counsel and Engineers, with answer of elevated companies, May 29th, 1896. Brooklyn Elevated R. R. Co. N. Y., 1896. 88 pp., pl., 9 x 6, pap.
- Traffic capacity of the N. Y. & B. Bridge Ry. Gabriel Leverich. 1889. (See Fg-109.)
- 17 **NEW YORK & NEW JERSEY BRIDGE.** Hudson River Bridge: General specifications for its construction. Theodore Cooper. N. Y., 1895. 10 pp., pl., 9 x 6, pap.
- 16 — Report. U. S.-Board of Engineers. Wash., 1894. 55 pp., 8 pl., 9 x 6, pap.
- 91 — Report of mechanical tests made with the United States testing machine, capacity 800 000 pounds, at the Watertown Arsenal, Mass., May 6th, 1895, for George S. Morison; tests by tension, steel wire ropes from the Trenton Iron Co. U. S.-Ordnance Office. no place, 1895. 21 + 1 pp., 14 x 9, pap.
- NIAGARA RY. SUSPENSION BRIDGE.** Final report to the Presidents and Directors of the Niagara Falls Suspension and Niagara Falls International Bridge Companies, May 1st, 1855. J. A. Roebling. Rochester, 1855. 47 pp., 9 x 5, b. p. Fd-2, p. 629.
- Memoir of the Niagara Falls Suspension and Niagara Falls International Bridge. J. A. Roebling. 1856. (See Fa-97, p. 1.)
- 95 — Reply to the recent criticism made by Edward Wasell upon the Niagara Railway Suspension Bridge. W. A. Roebling. N. Y. 1877. 18 pp., 8 x 5, pap.
- 94 — Report on the renewal of Niagara Suspension Bridge, 1880. L. L. Buck. N. Y., 1881. 38 + 8 pp., 6 pl., tab., 9 x 6, pap.
- Report to the Directors of the Niagara Falls International and Suspension Bridge Companies. J. A. Roebling. Buffalo, 1852. 12 pp., 9 x 5, b. p. Ab-3, p. 59.
- 93 — Report, to the Presidents and Directors of the Niagara Falls Suspension and Niagara Falls International Bridge Companies, on the condition of the Niagara Ry. Suspension Bridge. J. A. Roebling. Trenton, 1860. 20 pp., 9 x 6, pap.
- Specifications for the erection of the masonry of the Niagara International Suspension Bridge. no place, no date. 1 p., 13 x 8, b. p. no title-page. Dc-763, p. 71.
- Note: Replaced in 1896 by a steel arch bridge. For material relating to the latter, see Bridges—Arch.
- 89 **POINT BRIDGE.** American Bridge Co. (Paris Exposition, 1878.) Note: Description and general account of the construction of the Point Bridge, across the Monongahela River at Pittsburg, Pa. Chic., no date. 7 + 1 pp., 5 pl., 17 x 13, pap.
- 13 **POUGHKEEPSIE BRIDGE.** Bridging the Hudson at Poughkeepsie, N. Y., for a short direct through railway route from the coal fields to New England. Poughkeepsie Bridge Co., pub. Note: Proposed plan. For other material on the Poughkeepsie Bridge, see Bridges—Cantilever. Poughkeepsie, 1871. 33 + 1 pp., pl., maps, 9 x 6, pap.

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- 96 **QUEBEC RAILROAD BRIDGE, 1897.** Proposed bridge across the St. Lawrence at Quebec; design of some forty years ago of a then proposed trussed railway suspension bridge over the St. Lawrence opposite Quebec. G. (P.F.) Bail-lairgé. Quebec, 1897. pl., 23 x 14, pap.
- 6 **WHEELING SUSPENSION BRIDGE.** Argument for the Complainant, by Edwin M. Stanton, in the Supreme Court of the United States. *State of Pennsylvania vs. The Wheeling & Belmont Bridge Co. and others.* Phil., 1852. 37 pp., 9 x 6, b. p.
- Description of the Wheeling and Bridgeport Bridges. U. S.-Corps of Engineers. 1871. (See Fa-66, p. 11.)
- 5 —In the Supreme Court of the United States, in vacation; motion for injunction before Mr. Justice Grier. *State of Pennsylvania vs. The Wheeling & Belmont Bridge Co. and others.* Phil., 1849. 20 pp., 9 x 6, b. p. no title-page.
- 6 —Opinions of the Court and decree; opinion delivered by Mr. Justice McLean. *State of Pennsylvania vs. The Wheeling & Belmont Bridge Co. and others.* Phil., 1852. 44 pp., 9 x 6, b. p.
- 5 —Order of reference of the Supreme Court of the United States; with the proofs taken before R. Hyde Walworth, Commissioner; together with his report and the report of the Engineer appointed by him to take the measurement of the bridge across the Ohio River at Wheeling. *State of Pennsylvania vs. The Wheeling & Belmont Bridge Co. and others.* Saratoga Springs, 1851. 2 v., pl., map, 9 x 6,  $\frac{3}{4}$  cf.
- 5 —Report relative to the suit by the State of Pennsylvania against the Wheeling & Belmont Bridge Co., etc. Virginia-(House) Committee for Courts of Justice. (Doc. No. 45.) no place, 1851. 11 pp., 9 x 6, b. p.
- 5 —Supreme Court of the United States; in Chancery, No. 2. December Term, 1849; Mr. Stanton's argument. *State of Pennsylvania vs. The Wheeling & Belmont Bridge Co. and others.* no place, no date. 32 pp., 9 x 6, b. p. no title-page.

## BRIDGES—TRUSS.

## Fh

- 98 **AARBRÜCKE.** Aarbrücke bei Brugg. no place, no date. pl., 24 x 38, pap.
- Die Eisenbahnbrücke über die Aar bei Brugg, erbaut 1873-75. Schweizerischer Ingenieur und Architekten Verein. 1896. (See Sd16-2.1, v. 1, p. 3.)
- 84 **ALLSTON BRIDGE.** Contract and specifications for building an iron bridge, at Allston, over the Boston & Albany R. R. Boston-City Engineer. Bost., 1892. 22 pp., 10 x 8, pap.
- 103 **ALTON BRIDGE.** Plates illustrating the construction of the Alton Bridge, St. C. M. & St. L. B. R. G. S. Morison. N. Y., 1892. 5 pl., 40 x 22, pap.
- 67 —Specifications for superstructure of bridge across the Mississippi River at Alton, Ill. G. S. Morison. no place, 1893. unpagcd, 14 x 9, pap. no title-page.
- 12 **ASHTABULA BRIDGE.** Notes and comments on the failure of the bridge on the Lake Shore & Michigan Southern Ry., over Ashtabula Creek, Dec. 30th, 1876. Gabriel Leverich, comp. no place, no date. unpagcd, 5 x 8, pap. manuscript and newspaper slips.
- 27 —Report. Ohio-Joint Committee on Ashtabula Bridge Accident. Columbus, 1877. 158 pp., pl., 9 x 6, pap.
- 68 **ATCHISON BRIDGE.** Amended specifications for an iron railway and highway bridge over the Missouri River at Atchison, Kan. W. W. Wright. Atchison, 1873. unpagcd, 14 x 9, pap. no title-page.
- 11 **AUBURN BRIDGE.** Wrought iron truss bridge at West Auburn, Ia. H. E. Horton. no place, no date. sheet, 24 x 38, pap.
- BELLAIRE R. R. BRIDGE.** Description of the Bellaire R. R. Bridge on the line of the Baltimore & Ohio R. R. U. S.-Corps of Engineers. 1871. (See Fa-66, p. 14.)
- 102 **BELLEFONTAINE BRIDGE.** A report to Charles E. Perkins, President of the Chicago, Burlington & Quincy R. R., by the Chief Engineer of the bridge. G. S. Morison. no place, 1894. 40 pp., 2 + 18 pl., 14 x 23, pap.
- 59 —Plates illustrating the construction of the Bellefontaine Bridge. St. Louis, Keokuk & Northwestern R. R. Co. N. Y., 1892. 2 pl., 38 x 24, pap.
- 29 —Specifications for masonry of bridge across the Missouri River at Bellefontaine Bluffs, Mo. St. Louis, Keokuk & Northwestern R. R. Co. no place, 1892. unpagcd, 14 x 9, pap. no title-page.
- 33 —Specifications for superstructure of bridge across the Missouri River at Bellefontaine Bluffs, Mo. St. Louis, Keokuk & Northwestern R. R. Co. no place, 1892. unpagcd, 14 x 9, pap. no title-page.
- 52 **BISMARCK BRIDGE.** Report to A. Anderson, Engineer-in-Chief of the Northern Pacific R. R. by the Engineer and Superintendent of the bridge. G. S. Morison. no place, 1884. 44 pp., 1 + 26 pl., 14 x 22, pap.

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- 36 — Specifications for the substructure of the Bismarck Bridge. Northern Pacific R. Co. no place, no date. unpagd, 13 x 9, pap. no title-page.
- 55 **BLAIR CROSSING BRIDGE.** Report to Marvin Hughitt, President of the Missouri Valley & Blair Ry. & Bridge Co., by the Chief Engineer. G. S. Morison. no place, 1886. 25 pp., 2 + 19 pl., 14 x 22, pap.
- 111 **BRIDGEPORT HIGHWAY BRIDGE.** Plan for a highway bridge at Bridgeport, Conn. A. P. Boller. N. Y., 1869. sheet, 18 x 33, pap. no title-page.
- BUSSEY BRIDGE.** Special report to the Legislature in relation to the disaster on Monday, Mar. 14th, 1887, on the Dedham Branch of the Boston & Providence R. R., at the bridge commonly known as the Bussey Bridge. Mass.-Board of Railroad Commissioners. 1887. (See Ah-9.)
- 54 **CAIRO BRIDGE.** Report of Stuyvesant Fish, President, to the Board of Directors, Feb. 24th, 1892; Report of George S. Morison, Chief Engineer, Oct. 1st, 1891. Chicago, St. Louis & New Orleans R. R. Co. Chic., 1892. 41 + 13 pp., 1 + 37 pl., 14 x 23 pap.
- CAWNPORE BRIDGE.** Railway bridge over the Ganges at Cawnpore. W. H. Maw and James Dredge. 1872. (See Fa-60, p. 145.)
- 37 **CHAUDIÈRE BRIDGE.** General specification and form of tender for the iron superstructure of the Chaudière Bridge. P. A. Peterson. Montreal, 1880. unpagd, pl., 13 x 8, pap.
- 87 **CHENANGO CANAL BRIDGE.** Plan of road-bridge; extension of Chenango Canal. no place, 1870. pl., 38 x 24, pap.
- 99 **COLD RIVER BRIDGE.** Drawings of Cold River Bridge, Gulf Bridge, Cheshire R. R. & Highway Bridge, at Lee, Mass. Hawkins & Burrall. Springfield, Mass., 1874. 3 pl., 22 x 38, pap.
- 20 **CONNECTICUT RIVER BRIDGE.** Description of the iron bridge over the Connecticut River on the Hartford & New Haven R. R.; with a brief history of iron bridges. T. G. Ellis. Hartford, Conn., 1866. 35 pp., pl., 9 x 6, pap.
- CUMBERLAND VALLEY R. R. BRIDGE.** Description of the Cumberland Valley R. R. Bridge across the River Susquehanna at Harrisburg. Herman Haupt. 1853. (See Fa-98, p. 237.)
- 96 **DONAU BRÜCKE.** Die Donaubrücke der Österr. Nordwestbahn; Vortrag gehalten in Österr. Ingenieur und Architekten-Vereine. Moritz Morawitz. Wien, 1872. 23 pp., il., pl., 9 x 5, cl.
- 23 **ELLSWORTH AVENUE BRIDGE, PITTSBURG, PA.** Specifications for superstructure of street bridge to be erected over the Pennsylvania R. R., at Ellsworth Ave., Pittsburg. Pennsylvania R. R. Co. Phil., 1875. 4 pp., 9 x 6, pap. no title-page.
- 10 **FORT SNELLING BRIDGE.** Highway bridge across the Mississippi River at Fort Snelling, Minn. H. E. Horton & Co. no place, no date. sheet, 11 x 37, pap.
- GENERAL.**
- BAKER, S/R BENJAMIN.** Long-span railway bridges; comprising investigations of the comparative theoretical and practical advantages of the various adopted or proposed type systems of construction. 1867. (See Fe-1.)
- BALTIMORE & OHIO R. R. CO.** Standard specifications for iron and steel bridges and viaducts. 1894. (See Fa-40.)
- 3 **BENDER, CHARLES.** Comparison of the merits of the mode of building iron truss bridges in America with the system used in Europe. no place, 1874. 38 pp., 7 x 5, pap.
- Practical treatise on the properties of continuous bridges. (Van Nostrand's Science Ser.) 1876. (See Fe-25.)
- 91 — Proportions of pins used in bridges. (Van Nostrand's Science Ser.) N. Y., 1873. 52 pp., il., pl., 6 x 4, bds.
- BERG, L. DE C.** Graphical analysis of strains in trusses. 1894. (See Ja-70, v. 2, p. 136.)
- Wooden and iron trusses. 1894. (See Ja-70, v. 2, p. 179.)
- BOLLER, A. P.** Description of the various forms of truss bridges. 1876. (See Fa-7, p. 35.)
- Strains in girders and simple trusses. 1876. (See Fa-7, p. 97.)
- BOSTON & MAINE R. R. CO.** Standard specifications for metal bridges carrying tracks of the B. & M. R. R. 1896. (See Fa-41.)
- BOUSCAREN, L. F. G.** General specifications of railway bridges and viaducts of iron and steel. 1890. (See Fa-45.)
- BOVEY, H. T.** Applied mechanics. 1882. (See V-87.)
- 79 **BOW, R. H.** Treatise on bracing, with its application to bridges and other structures of wood or iron. N. Y., 1874. 48 pp., 5 pl., 9 x 6, cl.
- 92 **CAIN, WILLIAM.** Maximum stresses in framed bridges. (Van Nostrand's Science Ser.) N. Y., 1878. 192 pp., il., tab., 6 x 4, bds.



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## GENERAL—(Continued).

- 107 **CHICAGO, MILWAUKEE & ST. PAUL RY. CO.** Bills of material and drawings for standard Howe truss bridge, standard of 1891; made for the Bridge and Building Department. no place, no date. 15 pl., 14 x 9, pap. no title-page.
- CINCINNATI SOUTHERN R. R. CO.** Specifications for bridges and viaducts of iron and timber. 1881. (See Fa-44.)
- 94 **CLARKE, REEVES & CO.** Album of photographs; wrought iron railroad bridges constructed and erected for the Government of the Dominion of Canada on the line of the Quebec, Montreal, Ottawa & Occidental Ry., by Clarke, Reeves & Co., Phoenixville Bridge Works. Montreal, no date. phot., 15 x 22, ½ sh.
- COOPER, THEODORE.** General specifications for iron highway bridges and viaducts. 1885. (See Fa-93.)
- 88 —General specifications for iron railroad bridges and viaducts, Class A-C. N. Y., 1884. 3 v., 14 x 8, pap. no title-page.
- General specifications for steel railroad bridges and viaducts. 1896. (See Fa-38.)
- 63 **DEMPSEY, G. D.** Timber bridges and viaducts: Examples of trussed bridges and viaducts for supporting railways and other works; with bills of quantities and contents of timber and other material in each. Lond., 1852. 18 pp., 11 x 9, pap.
- DU BOIS, A. J.** Elements of graphical statics and their application to framed structures; with numerous practical examples of cranes, bridge, roof and suspension trusses, braced and stone arches, pivot and draw spans, continuous girders, etc.; with the best methods of calculation. 1875. (See Fa-110.)
- EADS, J. B.** General principles involved in the construction of arch and truss bridges. 1881. (See Fb-10, p. 35.)
- 78 **GREENE, C. E.** Trusses and arches analyzed and discussed by graphical methods. Note: v. 1 wanting. N. Y., 1879. 2 v., pl., 10 x 6, cl.
- HAUPT, HERMAN.** Lattice and trussed girder bridges. 1853. (See Fa-98, pp. 148, 260, 265.)
- 82 **HAYCROFT, J. I.** Determination of stresses by graphical analysis. Sydney, 1891. 25 pp., il., 9 x 5, pap.
- 118 **HOLT, THOMAS.** Maine Central R. R.: Iron bridges. no place, no date. pl., phot., 24 x 20, ¼ mor.
- HUMBER, WILLIAM.** Practical treatise on cast and wrought iron bridges and girders, as applied to railway structures, and to buildings generally; with numerous examples. 1857. (See Fa-58.)
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- Design of individual truss members. 1893. (See Fa-117, p. 242.)
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- 32 **MACDONALD, CHARLES.** Discussion of the general principles involved in the construction and action of the isometrical truss bridge. Phil., 1867. 35 pp., pl., 9 x 6, pap.
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- 24 HAWKESBURY RIVER BRIDGE. Competitive designs for the Hawkesbury River Bridge, New South Wales. no place, no date. sheet, 19 x 15, pap.
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- 116 —With an account of the regimen of the Missouri River, and a description of methods used for founding in that river. Octave Chanute and G. S. Morison. N. Y., 1870. 140 pp., 12 pl., 12 x 10, cl.
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- Description of the bridge from Louisville to Jeffersonville, Ind. U. S.-Corps of Engineers. 1871. (See Fa-66, p. 25.)



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- 61 — Superstructure, general plans. no place, no date. 5 pl., 19 x 22, pap. no title-page.
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- 81 **MÖNCHENSTEIN, PONT DE.** Mouvement initial du Pont de Mönchenstein lors de sa chute en 1891. Jules Gaudard. Lausanne, 1899. 14 pp., il., 9 x 6, pap.
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- 8 **NEWPORT & CINCINNATI BRIDGE.** Report of Board of Engineers on Newport & Cincinnati Bridge. U. S.-Corps of Engineers. (41st Cong., 3d Sess. House ex. doc. No. 32.) no place, 1870. 36 pp., 9 x 6, pap. no title-page.
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- PARKERSBURG BRIDGE.** Description of the Parkersburg Bridge on the line of the Baltimore & Ohio R. R. U. S.-Corps of Engineers. 1871. (See Fa-66, p. 17.)
- 53 **PLATTSMOUTH BRIDGE.** Report to Charles E. Perkins, President of the Chicago, Burlington & Quincy R. R., by the Chief Engineer of the Plattsmouth Bridge. G. S. Morison. no place, 1883. 36 pp., 25 pl., 13 x 22, pap.
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- 5 **POTOMAC AQUEDUCT BRIDGE.** Aqueduct Bridge across the Potomac River at Georgetown, D. C. S. T. Abert. Note: To accompany report of Apr. 14th, 1884. no place, no date. sheet, 22 x 14, pap.
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- 80 — Specifications, etc., for reconstruction of Pier No. 4 of the Aqueduct Bridge. U. S.-Corps of Engineers. Wash., 1899. 11 pp., 14 x 8, pap. no title-page.

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- 35 —Plan of the Poughkeepsie Bridge. no place, no date. sheet, pl., 17 x 36, pap.
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- 34 **REDHEUGH BRIDGE.** Account of the Redheugh Bridge. *The Engineer.* Lond., 1897. pp. 23-24, pl., 17 x 11, pap. newspaper slip.
- 22 **ROCKTON R. R. BRIDGE.** General specifications for bridge to be erected for the Western Union R. R. Co., over Rock River, near Rockton, Ill. no place, no date. 3 pp., 14 x 9, pap. no title-page.
- 56 **RULO BRIDGE.** Report to Charles E. Perkins, President of the Chicago, Burlington & Quincy R. R., by the Chief Engineer. G. S. Morison. no place, 1890. 30 pp., 23 + 2 pl., 13 x 22, pap.
- 73 —Specifications for superstructure for bridge across the Missouri River at Rulo, Neb. G. S. Morison. N. Y., 1886. unpag., 14 x 9, pap. no title-page.
- 30 **ST. CHARLES BRIDGE.** Testimony at the Coroner's inquest of the St. Charles Bridge disaster of Nov. 8th, 1879. S. H. Yonge, ed. St. Charles, Mo., 1880. 67 pp., pl., 9 x 6, pap.
- 109 **ST. JOSEPH BRIDGE.** Annual report of the Chief Engineer; 1st; 1872. St. Joseph Bridge Building Co. St. Joseph, 1872. 1 v., 9 x 6, pap.
- 108 —Description of the method of founding the piers for the bridge over the Missouri River, at St. Joseph, Mo. W. S. Pope. N. Y., 1873. 17 pp., il., 9 x 6, pap.
- 110 —Mémorial of the iron bridge over the Missouri River at St. Joseph, Mo.; built in 1871-2-3. Detroit Bridge & Iron Works. no place; 1873 (?) 53 pp., 9 x 6, pap.
- ST. LAWRENCE BRIDGE.** Report on the St. Lawrence Bridge, & Manufacturing Scheme, 13th Dec., 1882. John Kennedy. 1882. (See Cc-17.)
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- 48 **SHER-SHAH BRIDGE.** Over the Chinab River near Multan, Punjab, India. F. J. E. Spring. Madras, 1891. 1 + 21 pp., 13 x 8, pap.
- 16 **SIoux CITY BRIDGE.** Report to Marvin Hughitt, President of the Sioux City Bridge Co., by the Chief Engineer. G. S. Morison. no place, 1891. 17 pp., 17 pl., 14 x 22, pap.
- 7 **SIoux RIVER BRIDGE.** Diagram of the Sioux River Bridge. no place, no date. sheet, 17 x 41, pap.
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- 100 **SOUTHBRIDGE ST. BRIDGE, WORCESTER, MASS.** Bridge on the Boston & Albany R. R. over Southbridge Street, Worcester, Mass. E. S. Philbrick. no place, no date. 4 sheets, 18 x 82, pap.
- 101 **SPRINGFIELD R. R. BRIDGE.** Plan of iron bridge on Boston & Providence R. R., built by Stone & Harris. no place, 1849. sheet, 23 x 32, pap.
- 49 **STADLAU BRÜCKE.** Über den Transport der Eisenconstruction für die Donau-Brücke der K. K. priv. Oesterreichischen Staats-Eisenbahn-Gesellschaft zwischen Prater und Stadlau nächst Wien. Heinrich Schmidt. Wien, 1871. 12 pp., 2 pl., 13 x 10, cl.
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- 44 **TAY BRIDGE, 1870.** Report of the Court of Inquiry and report of Mr. Rothery, upon the circumstances attending the fall of a portion of the Tay Bridge, on the 28th Dec., 1879. Great Britain-Board of Trade. Lond., 1880. 3 v. in 2, pl., 13 x 9, ¼ ro.
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- 17 **VAN BUREN BRIDGE.** St. Louis & San Francisco Ry. Bridge, at Van Buren, Ark. Note: Bound Volume of photographs illustrating the construction of the bridge. no place, 1885. 2 pp., 48 phot., 7 x 11, ¾ mor. no title-page.
- 69 **VANCOUVER BRIDGE.** Specifications for superstructure of Oregon Ry. Extensions Co.'s Bridge across the Columbia River at Vancouver, Wash. G. S. Morison. Chic., 1890. unpag., 14 x 9, pap. no title-page.
- 64 **VICTORIA JUBILEE BRIDGE.** The Grand Trunk's new structure at Montreal. *Railway and Shipping World.* Toronto, 1898. pp. 7-10, il., phot., 12 x 9, pap.
- 2 **WILLAMETTE BRIDGE.** Northern Pacific R. R.: General plan of 260-ft. span of Willamette Bridge. G. S. Morison. no place, no date. sheet, 14 x 36, pap.
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**BRIDGES—VIADUCTS.****Fi**

- AURAY, VIADUC D'.** no place, 1860-63. pl., 12 x 36, b. p. Dc-650, p. 153.
- 4 **CHASTELLUX, VIADUC DE.** Notice sur la construction du Viaduc de Chastellux. E. Lavoine. no place, 1882. pp. 5-17, pl., 9 x 6, pap. no title-page.
- CHATEAULIN, VIADUC DE.** Nantes, 1863-69. pl., 12 x 37, b. p. Dc-650, p. 171.
- 2 **CONNECTICUT AVENUE VIADUCT, WASHINGTON, D. C.** Report, together with the submitted plans and their accompanying letters of transmittal, descriptions, specifications, and estimates for a bridge or viaduct across Rock Creek, on the line of the extension of Connecticut Avenue. Commissioners of District of Columbia. (55th Cong., 2d Sess. Senate doc. No. 96.) Wash., 1898. 26 pp., 34 pl., 9 x 6, pap.
- D. LUIZ I PORTO, PONTE.** Photographs illustrating the construction of the bridge. no date. (See Fb-50.)
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- DENBY DALE VIADUCT.** The Denby Dale Viaduct upon the line of the Huddersfield & Sheffield Ry. Sir John Hawkshaw. 1856. (See Fa-97, p. 86.)
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- General specifications of railway bridges and viaducts of iron and steel. 1890. (See Fa-45.)
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- COOPER, THEODORE.** General specifications for iron and steel highway bridges and viaducts. 1888. (See Fa-39.)
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- GAUDARD, JULES.** Vues d'ouvrages d'art; réparations de viaducs en maçonnerie; perfectionnement des poutres métalliques; baches de ponts-canaux; élargissement du Grand Pont de Lausanne. 1895. (See Fa-74.)
- HENRY, R.** Ponts et viaducs mobilisables à éléments portatifs pour chemins de fer. 1888. (See Fa-21.)
- 3 **VIEWS OF CERTAIN VIADUCTS IN THE VICINITY** of Chemnitz and Grimma, Saxony. no place, no date. 9 pl., 18 x 12, pap. no title-page.
- 6 **WADDELL, J. A. L.** Iron viaducts for highways. Kansas City, Mo., 1889. 11 pp., 9 x 6, pap.  
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- LAKE SHORE & MICHIGAN SOUTHERN RY.** Photographs of railroad bridges, viaducts and culverts on the line of the railway. no date. (See Fh-95.)
- LOCKWOOD VIADUCT.** The Lockwood Viaduct upon the line of the Huddersfield & Sheffield Ry. Sir John Hawkshaw. 1856. (See Fa-97, p. 83.)
- 155TH STREET VIADUCT, NEW YORK.** Central Bridge over the Harlem River, New York City, and the approaches thereto, including the 155th Street Viaduct. Note: Series of photographs of the bridge and viaduct. 1895. (See Fd-26.)
- PADDOCK VIADUCT.** The Paddock Viaduct upon the line of the Huddersfield & Sheffield Ry. Sir John Hawkshaw. 1856. (See Fa-97, p. 81.)
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# MECHANICAL.

## MECHANICAL—GENERAL.

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- 112 **ADAMS, HENRY.** Handbook for mechanical engineers. ed. 3. Lond., 1893. 48 + 263 + 44 pp., por., 7 x 5, cl.
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- 142 **AMERICAN SOCIETY OF MECHANICAL ENGINEERS.** Blue-print of decimal gauge adopted by the Joint Committee of the American Society of Mechanical Engineers and the Master Mechanics' Association. N. Y., 1895. blue-print, 11 x 8, pap.
- 53 **APPLEBY, C. J.** Appleby's illustrated handbook of machinery. ed. 3, rev. and enl. Contents: v. 1, Prime movers. v. 2, Hoisting machinery. v. 3, Pumping machinery. v. 4-8, wanting. Lond., 1877-80. 3 v., il., 9 x 6, cl.
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- 90 **BABBAGE, CHARLES.** On the economy of machinery and manufactures. ed. 4, enl. Lond., 1835. 24 + 408 pp., 7 x 4, cl.
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- 35 **BOLTON, REGINALD.** Motive powers and their practical selection. N. Y., 1895. 10 + 257 pp., il., tab., 8 x 5, cl.
- 13 **BREMERMAN, E. L.** Testing machine of the Illinois & St. Louis Bridge Co. no place, no date. sheet, 17 x 22, pap. no title-page.
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- 46 —Machines for making ice, using sulphurous acid or ammonia in the process. Phil., 1879. 11 pp., pl., 9 x 6, pap.
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- 57 **CLERK, DUGALD.** Theory of the gas engine. (Van Nostrand's Science Ser.) N. Y., 1882. 164 pp., il., 6 x 4, bds.
- 135 **CONGRÈS INTERNATIONAL DE MÉCANIQUE APPLIQUÉE, PARIS, 1889.** Comptes-rendus des séances générales, procès-verbaux des séances de section, listes des membres, etc. Paris, 1890. 6 v., il., pl., 11 x 7 (pl. 14 x 11), pap.
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- 4 **COUVREUX, A.** Excavateur pour grands travaux de terrassements, ports, canaux, tranchées, etc. Paris, 1878. 6 pp., pl., 12 x 9, pap.
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- 49 —Directible flying-machine: Notes read in the Subsection of Aeronautics at the 10th Meeting of Naturalists and Physicians, Kieff, 27th Aug., 1898. Charkow, 1898. 12 pp., phot., 9 x 7, pap.
- 127 **DEMPSEY, G. D.** Machinery of the nineteenth century. Lond., 1852 (?) 2 v. in 12, pl., 11 x 9 (pl. 23 x 15), pap.
- 21 **DE ROOS, J. D. C.** Linkages: The different forms and uses of articulated links. N. Y., 1879. 87 pp., il., pl., 6 x 4, bds.
- 32 **EMERY, A. H.** Copy of letter to the Secretary of the Navy, relative to appropriations for testing machines. no place, no date. 4 pp., 9 x 6, pap. no title-page.
- 31 **EMERY'S TESTING MACHINE.** House Bill No. 719; claim of A. H. Emery; extracts from publications in regard to merits of the testing machine. no place, no date. 14 pp., 9 x 5, pap.
- 154 **ENGINEER AND MACHINIST.** Note: Detailed drawings of machines. Text wanting. no place, no date. 132 pl., 20 x 15,  $\frac{1}{2}$  mor. no title-page.
- 124 **ENGINEER AND MACHINIST'S ASSISTANT;** being a series of plans, sections and elevations of steam engines, spinning machines, mills for grinding, tools, etc., taken from machines of approved construction at present in operation; with descriptions and instructions for drawing machinery. Glasgow, 1847. 2 v., il., pl., 15 x 10,  $\frac{1}{2}$  mor.
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- 62 **FAIRBAIRN, WILLIAM.** Treatise on mills and mill work. Contents: Pt. 1, wanting. Pt. 2, On machinery of transmission, and the construction and arrangement of mills. Lond., 1863. 1 v., il., pl., 9 x 6, cl.
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- 121 HASLUCK, P. N. Mechanic's workshop handybook: A practical manual on mechanical manipulation; embracing information on various handicraft processes, with useful notes and miscellaneous memoranda. Lond., 1888. 136 pp., 7 x 5, cl.
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- 14 HENTHORN, J. T. On the power required to overcome the frictional resistances of engine and shafting in mills, and its cost. no place, 1884. 12 pp., 9 x 6, pap.
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- 140 HERRMANN, GUSTAV. Der Reibungswinkel; eine Festgabe zur dritten Säcular-Feier der Universität Würzburg am 1. Aug., 1882; gewidmet von der königlichen technischen Hochschule zu Aachen. Braunschweig, 1882. 25 pp., il., 11 x 9, pap.
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- KENT, WILLIAM.** Mechanical engineer's pocket-book: A reference book of rules, data, tables and formulæ; for the use of engineers, mechanics and students. 1895. (See V-5.)
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- 9 **LAFFERTY, H. W., and ROBERT.** New centrifugal hydro-ejector; or, Sugar draining machine. N. Y., 1870. 11 pp., il., 9 x 6, pap.
- 3 **LEAVITT, E. D., and J. T. HENTHORN.** Report of a test of the steam plant at the Washington Mills, Lawrence, Mass., June 12th to 18th, 1890; made by the Referees in the case of the Dickson Manufacturing Co. vs. the Washington Mills Co. Scranton, no date. 93 + 2 pp., 11 x 7, pap.
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- 97 **MORIN, ARTHUR.** Fundamental ideas of mechanics, and experimental data; rev., tr., and reduced to English units of measure, by Joseph Bennett. N. Y., 1860. 13 + 445 pp., il., pl., 9 x 6, cl.
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- 130 **PARNICKE, A.** Die maschinellen Hilfsmittel der chemischen Technik. Frankfurt a. M., 1894. 8 + 320 pp., il., 10 x 7, pap.
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- 10 **ROEBLING, W. A.** Description of a new method of transmitting power by means of wire ropes. N. Y., 1869. 22 pp., il., 3 pl., tab., 9 x 6, pap.
- 42 **SELLERS, COLEMAN.** Transmission of motion: A lecture delivered at the Stevens' Institute of Technology, Feb. 19th, 1872. no place, no date. 26 pp., il., 9 x 6, pap.
- 113 **SHELDRAKE, T.** Description of the theory and properties of inclined plane wheels, by which power and velocity will be increased and friction diminished in any machinery into which they can be introduced, and by this means the effect of such machinery will be greatly increased. Lond., 1811. 4 + 87 pp., 3 pl., 8 x 5, bds.
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- Reports made on various occasions in the course of his employment as a civil engineer. 1812-14. (See Cb-423.)
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- 138 **SUPPRESSION DU CYLINDRE A VAPEUR DANS LES MARTEAUX-PILONS** et améliorations diverses apportées à cet outil. no place, no date. 12 pp., pl., 9 x 6, pap.
- 37 **SWIFT, R. B.** Who invented the reaper? An answer to the protest statement said to have been filed at the Treasury Department. Chic., 1897. 54 pp., il., por., 9 x 6, cl.
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- 80 **TOMLINSON, CHARLES**, ed. Rudimentary treatise on the construction of locks. Lond., 1853. 6 + 172 pp., il., 7 x 4, cl.
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- 129 **UNION BRIDGE CO.** General plan and details of 1 200 000-lb. testing machine; maximum water-pressure 600 lbs. per square inch. no place, no date. 4 sheets, various sizes, pap. scale,  $\frac{3}{4}$  in. to 1 ft.
- 22 **UNITED STATES—BUREAU OF STEAM ENGINEERING.** Report of the Board to recommend a standard gauge for bolts, nuts, and screw-threads for the United States Navy, May, 1860. Wash., 1880. 30 pp., pl., 9 x 6, pap.
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# ELECTRIC.

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- 5 **COWLES, A. H.** The Cowles' electric furnace, and the production of aluminum and its alloys: An address delivered before the Society of Arts, Boston, Feb. 11th, 1886. no place, 1886. 10 pp., 9 x 6, pap. no title-page.
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# ARCHITECTURE AND BUILDING.

## ARCHITECTURE AND BUILDING—GENERAL.

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- NEW YORK & BROOKLYN BRIDGE.** Specifications for building warehouses in the arches of the New York approach of the East River Bridge. 1883. (See Fg-83.)
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- 67 **SHAW, EDWARD.** Operative masonry; or, a Theoretical and practical treatise of building; containing a scientific account of stones, clays, bricks, mortars, cements, &c.; a description of their component parts, with the manner of preparing and using them; the fundamental rules in geometry on masonry and stone-cutting, with their application to practice. Bost., 1832. 140 pp., 40 pl., 10 x 6, cl.
- 103 **SMEATON, G. A.** Builder's pocket manual; or, Rules and instructions in the art of carpentry, joinery, masonry and bricklaying; with practical hints and observations for the use of the workman; and a variety of receipts for cements, washes, etc.; to which is added some of the most useful mechanical problems, and a variety of tables, etc. Lond., 1825. 32 + 258 pp., pl., 6 x 4, ¾ sh.
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- 37 **STREET, G. E.** Brick and marble in the Middle Ages: Notes of a tour in the north of Italy. Note: History of the development of architecture in Italy during the Middle Ages, and the introduction of brick and marble in decoration and construction. Lond., 1855. 20 + 287 pp., il., 34 pl., 9 x 6, cl.
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- 110 **TEXIER, CHARLES, and R. P. PULLAN.** Byzantine architecture, illustrated by examples of edifices erected in the East during the earliest ages of Christianity; with historical and archæological descriptions. Lond., 1864. 8 + 218 pp., 70 pl., 17 x 12, ¾ mor.
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- 6 **TREATISES ON ARCHITECTURE AND BUILDING; FROM THE ENCYCLOPÆDIA** Britannica, seventh edition. Edin., 1835. 105 pp., pl., 12 x 9, bds.
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- 91 —Report on school architecture and plans for graded schools; by the Commissioner. Wash., 1870. 648 pp., il., 9 x 6, pap.
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- 98 —Specifications, etc., for building lock-tender's house at Lock No. 4, Black Warrior River, Ala. Mobile, 1900. 6 pp., 14 x 8, pap. no title-page.
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- 61 —Specifications, etc., for furnishing all the labor and materials and erecting four lock tenders' dwellings, Kentucky River, Ky. Louisville, 1898. 7 pp., 14 x 8, pap. no title-page.
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- 114 **VITRUVIUS POLLIO, M.** Architecture of M. Vitruvius Pollio; tr. fr. the original Latin, by W. Newton. Lond., 1791. 2 v. in 1, por., pl., 20 x 13, ½ sh.
- WAIT, J. C.** Engineering and architectural jurisprudence: A presentation of the law of construction for engineers, architects, contractors, builders, public officers, and attorneys-at-law. 1898. (See Zh-24.)
- 96 **WALTERS, GEORGE, and THOMAS SHAFFERS.** Wrought iron and steel columns, Sept. 29th and Oct. 20th and 27th. Phil., 1868. pl., 32 x 22, pap.
- 40 **WEALE, JOHN, pub.** Catalogue of books, from the earliest period to the present, on architecture and civil engineering; together with several drawings and prints on similar subjects, collected in England, France, Germany, Italy and Belgium. Lond., 1836-37. 139 pp., il., 9 x 6, ¾ cf.
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- 46 —Rudimentary treatise on the principles of construction in the carpentry and joinery of roofs; deduced from the works of the late Professor Robinson, Price, and Tredgold. Lond., 1859. 2 v., 7 x 5, 12 x 10, cl.
- 34 **WILSON BROTHERS & CO.** Catalogue of work executed, accompanied by illustrations. Phil., 1885. 70 pp., il., 9 x 11, cl.
- 32 **WOOD, DE VOLSON.** Problem of the rafters. no place, no date. 8 pp., 9 x 6, pap. no title-page.
- 30 **YOUNGSTOWN BRIDGE CO.** Specifications for roofs and iron buildings. no place, no date. unpagd., 14 x 9, pap. no title-page.

## ARCHITECTURE AND BUILDING—BUILDINGS.

**Jb**

- 52 **AMERICAN MUSEUM OF NATURAL HISTORY, NEW YORK.** Specifications, etc., for tiling work in the Museum of Natural History in the Central Park. New York City—Department of Public Parks. N. Y., 187-. 10 pp., 14 x 8, pap. no title page.
- 60 **BALTIMORE, MD., CITY HALL.** The City Hall, Baltimore: History of construction and dedication. Balt., 1877. 141 + 5 pp., pl., 12 x 9, cl.
- BERLIN, GERMANY.** Berlin und seine Bauten. Architekten-Verein zu Berlin. 1877. (See Sd5-13.1.)
- 67 **BERN KANTONSRAATHAUS.** Bern-Baudirection des Kantons, pub. no place, 1876. pl., 25 x 20, pap.
- 17 **BRIDGEPORT, CONN., SCHOOL-HOUSE.** Report on the plans for warming and ventilating the Bridgeport school-house; to the Building Committee of the Bridgeport High School. Robert Briggs. Phil., 1880. 31 pp., 9 x 6, pap.
- 18 **BUNKER HILL MONUMENT.** Arguments on behalf of the Bunker Hill Monument Association before the Mayor and Aldermen of Charlestown, in favor of the new avenue to the monument; with supplement, containing the argument of Samuel S. Wilson, and abstract of evidence offered by citizen petitioners. W. W. Wheildon and G. W. Warren. Charlestown, 1869. 95 pp., il., 9 x 6, pap.  
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- 62 —Plans and sections of the obelisk on Bunker's Hill; with the details of experiments made in quarrying the granite. S. Willard. Bost., 1843. 31 pp., 1 + 14 pl., 13 x 10, ½ sh.
- 20 —Proceedings at the annual meeting; 56th; 1879. Bunker Hill Monument Association. Bost., 1879. 1 v., 9 x 6, pap.
- 72 **CALIFORNIA UNIVERSITY.** International competition for the Phoebe A. Hearst architectural plan for the University of California. no place, no date. 152 pp., il., pl., por., 10 x 14, cl.
- CANADA.** General report of the Minister of Public Works. 1852-77. (See Ca-45.)
- 34 **CARNEGIE MUSIC HALL, NEW YORK.** "Music Hall," 57th St. and 7th Avenue. Music Hall Co., pub. N. Y., no date. 49 pp., il., 12 x 9, pap.



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- 54 **CHICAGO CUSTOM-HOUSE.** Report of Commission appointed by the Secretary of the Treasury to examine and report upon the condition of the new Chicago Custom-House, together with endorsement of the Secretary thereon, and record of the proceedings of said Commission. U. S.-Treasury Department. Wash., 1875. 117 pp., pl., 9 x 6, pap.
- CHICAGO INTERNATIONAL EXHIBITION, 1893.** L'architecture et les constructions métalliques à l'Exposition de Chicago. Antoine Grille and H. Falconnet. 1894. (See Yf-180, v. 1.)
- 71 **CINCINNATI CUSTOM-HOUSE AND POST-OFFICE.** Specifications for wrought and cast-iron work for the United States Custom-House and Post-Office at Cincinnati, O. U. S.-Supervising Architect. (Treasury Department.) no place, no date. 13 pp., 6 pl., 14 x 8 (pl. 23 x 36), pap.
- 41 **COAL AND IRON EXCHANGE, NEW YORK.** Description of the Coal and Iron Exchange Building. N. Y., 1876. 22 pp., pl., 9 x 7, pap.
- COLOGNE, GERMANY.** Köln und seine Bauten; Festschrift zur VIII Wanderversammlung des Verbandes deutscher Architekten- und Ingenieur-Vereine, in Köln, vom 12 bis 16 Aug., 1888. Architekten- und Ingenieur-Verein für Niederrhein und Westfalen. 1888. (See Sd5-14.1.)
- 46 **CRYSTAL PALACE, 1851.** Building erected in Hyde Park for the great exhibition of the works of industry of all nations, 1851. Charles Downes and Charles Cowper. Lond., 1852. 4 + 45 pp., 27 pl., 13 x 11, cl.
- DRESDEN, GERMANY.** Die Bauten technischen und industriellen Anlagen von Dresden. Sächsischer Ingenieur- und Architekten-Verein und Dresdener Architekten-Verein. 1878. (See Sd5-6.2.)
- 86 **EGYPT.** Egyptian obelisks. H. H. Gorringer. N. Y., 1882. 10 + 187 pp., por., pl., 14 x 11, cl.
- 50 **EIFFEL TOWER.** Baillaigé's London Eiffel Tower. no place, no date. 4 pp., il., 9 x 6, pap. no title-page.  
—Description of the construction of the Eiffel Tower. William Watson. 1892. (See Yf-68, p. 806.)
- 63 **ENGLAND.** Illustrations of the spires and towers of the mediæval churches of England; preceded by some observations on the architecture of the Middle Ages, and its spire-growth. Charles Wickes. Lond., 1853-59. 3 v., pl., 22 x 15, cl.
- 58 **ESSEX MARKET, NEW YORK CITY.** Specifications, etc., for making alterations of a market building on the block fronting on Grand St., between Ludlow and Essex Streets. New York-Department of Public Works. N. Y., 1881. 18 pp., 14 x 8, pap. no title-page.
- 66 **FLORENCE, ITALY.** Studio d'architettura civile, sopra gli ornamenti di porte, e finestre colle misure, piante, modini, e profili, tratte da alcune fabbriche insigni di Firenze erette col disegno de piu' celebri architetti; opera misurata, disegnata, e intagliata da Ruggieri architetto, sotto gli auspici dell' A. R. di Cosimo III, Granduca di Toscana. Ferdinando Ruggieri. Firenze, 1722-28. 3 v., pl., 18 x 14, cf.
- 64 **FRANCE.** Specimens of mediæval architecture, chiefly selected from examples of the 12th and 13th centuries in France and Italy. W. E. Nesfield. Lond., 1862. 100 pl., 17 x 11, ½ mor.
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- 73 **FULTON MARKET, NEW YORK.** Specifications, etc., for building portions of a market building on the block bounded by South, Beekman, Front, and Fulton Streets. New York City—Department of Public Works. N. Y., 1881. 18 pp., 14 x 8, pap. no title-page.
- 47 **GREAT BRITAIN.** History and antiquities of the cathedral churches of Great Britain. James Storer. Lond., 1814-19. 4 v., pl., 9 x 5, ½ mor.
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- 33 **HOTEL CECIL, LONDON, ENG.** Book of the Hotel Cecil, London. Glasgow, no date. 54 pp., il., 11 x 9, pap.
- 45 **HOTEL IMPERIAL, NEW YORK.** Hotel Imperial, Broadway and 32d St., New York. N. Y., 1890. unpag., il., pl., 12 x 10, pap.
- 48 **HOUSES OF PARLIAMENT, LONDON, ENG.** Report on the ventilation, warming, and lighting of the Houses of Parliament. John Percy. no place, 1866. 13 pp., 13 x 8, b. p.

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- 64 **ITALY.** Specimens of mediæval architecture, chiefly selected from examples of the 12th and 13th centuries in France and Italy. W. E. Nesfield. Lond., 1862. 160 pl., 17 x 11, ½ mor.
- 74 **KING BRIDGE COMPANY RIVETING SHOP.** Design of the King Bridge Co.'s new riveting shop. G. E. Gifford. no place, 1894. 14 pp., 9 x 6, pap.
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- 23 **LIBRARY OF CONGRESS, WASHINGTON, D. C.** New library of Congress: Report to accompany the memorial of Messrs. Smithmeyer and Pelz. U. S. (Senate) Committee on Additional Accommodations for the Library. (55th Cong., 1st Sess. Senate rep. No. 105.) Wash., 1897. 16 pp., 8 pl., 9 x 6, pap.
- 29 —Report of the construction of the building for the Library of Congress; 1896-97. U. S. Superintendent of Building for the Library of Congress. Wash., 1896-97. 2 v., 9 x 6, pap. no title-page.
- 22 —Report upon the construction of the building, containing a detailed statement of cost, Apr. 22d, 1897. U. S. Superintendent of Building for the Library of Congress. (55th Cong., 1st Sess. Senate doc. No. 55.) no place, 1897. 4 pp., 9 x 6, pap. no title-page.
- 28 —Report upon the construction of the building for the Library of Congress; 1893-94. U. S. Corps of Engineers. Wash., 1894-95. 2 v., 9 x 6, pap.
- 31 **MCGILL UNIVERSITY, MONTREAL, QUE.** Formal opening of the Engineering and Physics Buildings, Feb. 24th, 1893. no place, 1893. 67 pp., il., por., 10 x 12, pap.
- 70 **MAIN EXHIBITION BUILDING, PHILADELPHIA, 1876.** Ground plan of the Main Exhibition Building, Philadelphia International Exhibition. U. S. Centennial Commission. Phil., 1876. sheet, 28 x 47, pap.
- 19 **MASSACHUSETTS INSTITUTE OF TECHNOLOGY.** Technical description of the Engineering Building of the Institute of Technology. F. W. Chandler, A. Lanza and S. H. Woodbridge. Bost., 1890. 29 pp., il., pl., 9 x 6, pap.
- 85 **METROPOLITAN MUSEUM OF ART, NEW YORK.** Specifications, etc., for various kinds of work required in the erection of the building known as the Museum of Art in Central Park. New York-Department of Public Parks. no place, 187-. 8 v., 14 x 8, pap. no title-page.
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- 38 **NEW YORK OBELISK.** Notes of research on the New York obelisk. A. A. Julien. no place, 1893. pp. 66-166, il., pl., 10 x 6, pap.
- 37 —Our obelisk. *New York World*. Note: An account of the erection of the obelisk in Central Park. N. Y., 1881. newspaper slips, 22 x 15, pap.
- NEW YORK STATE CAPITOL, ALBANY.** Annual report of the New Capitol Commissioners; 1869, '73-74. Albany, 1870-75. 3 v., 9 x 6, b. p. Dec-876, p. 731.
- 44 —Details for plan for the new State Capitol at Albany. no place, 1874. 3 pl., 32 x 21, pap.
- 48 —Laws relating to the new Capitol. New York-Legislature. Albany, 1868. 8 + 37 pp., 9 x 6, b. p.
- 43 —New Capitol: An examination of the grounds on which the security of the Assembly Chamber is held to be in question. Leopold Eidlitz and others. no place, 1882. 24 pp., il., 9 x 6, pap.
- 39 —Plans for the new State House, Albany. Adams & Worthen. no place, 1866. 7 pp., 14 x 9, pap. no title-page.
- 76 **NORTHERN CENTRAL RY. CO. OFFICE BUILDING.** Specifications for on office building for the N. C. Ry. Co. at Baltimore, Md. J. M. Wilson. Phil., 1875. 21 pp., 9 x 6, pap.
- 48 **OTTAWA, ONT., PUBLIC BUILDINGS.** Report of John Page, Chief Engineer, on the public buildings at Ottawa. Canada-Department of Public Works. Ottawa, 1868. 43 pp., 9 x 6, b. p.
- 15 **PEMBERTON MILL, LAWRENCE, MASS.** Fall of the Pemberton Mill. J. B. Francis, anon. no place, no date. 11 pp., pl., 9 x 6, pap.
- 32 **PENTONVILLE PRISON.** Report on the construction, ventilation, and details of the Pentonville Prison. Great Britain-Surveyor-General of Prisons. Lond., 1844. 30 pp., pl., 13 x 9, ¾ mor.

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- PHILADELPHIA INTERNATIONAL EXHIBITION, 1876.** Plans for the Philadelphia Exhibition, with general and detail drawings of the Main Exhibition Building and Machinery Hall. 1876. (See Yf-158.)
- 48 **PHILADELPHIA, PA., PUBLIC BUILDINGS.** Description of plans for the new public buildings, to be erected on Independence Square, in the City of Philadelphia. Samuel Sloan. Phil., 1869. 14 pp., 9 x 6, b. p. no title-page.
- 56 —Reply of the Commissioners for the Public Buildings to the request of Samuel G. King, Mayor of Philadelphia, for a statement of their operations during the year 1883; and opinion of William Rawle, to the Common Council, May 28th, 1799, as to the right of the city to the Centre (Penn.) Square, and to erect a building for public purposes upon the intersection of Broad and High (Market) Streets. Phil., 1884. 37 pp., 9 x 6, pap.
- 65 **PRUSSIA.** Maps and plans of public buildings in the State of Prussia; published by the Minister of the Interior, for official use. no place, no date. 2 v., pl., 25 x 18, ¾ cf.
- PYRAMIDS, THE.** A poor man's photograph at the Great Pyramid in the year 1865, compared with that of the Ordnance Survey Establishment, subsidized by London wealth and under the orders of Col. Sir Henry James, at the same place four years afterwards. C. P. Smyth. 1870. (See Ze-5.)
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- Solution of the pyramid problem; or, Pyramid discoveries; with a new theory as to their ancient use. Robert Ballard. 1882. (See R-36.)
- Vertical and cross-sections of the Great Pyramid of Jeezeh. International Institute for Preserving and Perfecting Anglo-Saxon Weights and Measures. 1881. (See Sa3-157.5.)
- 2 **ST. ALBANS, ENG., ABBEY CHURCH.** History of the architecture of the abbey church of St. Albans; with special reference to the Norman structure. I. C. and C. A. Buckler. Lond., 1847. 10 + 168 pp., il., 9 x 6, cl.
- 69 **ST. LOUIS CUSTOM-HOUSE AND POST-OFFICE.** General plan and details of the custom-house and post-office at St. Louis, Mo. U. S.-Supervising Architect. (Treasury Department.) Note: Incomplete. no place, no date. 5 sheets, 24 x 36, pap.
- 1 **SALISBURY, ENG., CATHEDRAL.** History and antiquities of the Cathedral of Salisbury; illustrated with a series of engravings of views, elevations, plans, and details of that edifice, also etchings of the ancient monuments and sculpture; including biographical anecdotes of the bishops and of eminent persons connected with the church. John Britton. Lond., 1836. 8 + 113 pp., 23 + 5 pl., 12 x 9, ¾ cf.
- 3 **SAN FRANCISCO CITY HALL.** Specification and general conditions, with schedule of iron work, and forms of tender; the City Hall; Hall of Records and law courts, San Francisco, Cal. Board of City Hall Commissioners. no place, no date. 110 pp., il., 7 x 5, cl.
- 40 **SHAW MONUMENT.** Specifications, etc., for building the base and pedestal for the Shaw Monument on Boston Common, Nov., 1892. Boston-City Engineer. Bost., 1892. 17 pp., 10 x 8, pap.
- 35 **SOCIÉTÉ DES INGÉNIEURS CIVILS DE FRANCE, HÔTEL DE LA.** Inauguration du nouvel hôtel de la Société, le 14, janvier, 1897. Paris, 1897. 27 pp., pl., 10 x 6, pap.
- 42 **STATUE OF LIBERTY.** Description of the Statue of Liberty and its construction, and account of its dedication. *New York World*. N. Y., 1886. 3 pp., il., facsim.; 21 x 18, pap.
- Report upon some recent improvements in aids to navigation and a description of the new methods of lighting the Statue of Liberty. D. P. Heap. 1892. (See Cc-364, Annual report, 1891-92, p. 257.)
- Report upon the installation of the electric light plant of the Statue of Liberty Enlightening the World, Bedloe's Island, New York Harbor, and an account of the operations of the plant. John Millis. 1887. (See Cc-364, Annual report, 1884-85, p. 117.)
- 51 **STEPHENSON, JOHN, COMPANY'S WORKS.** Location, design, and construction of an industrial establishment. C. H. Davis. no place, 1899. 48 pp., il., 11 x 8, pap.
- STUTT GART, GERMANY.** Stuttgart: Führer durch die Stadt und ihre Bauten: Festschrift zur sechsten Generalversammlung des Verbandes deutscher Architekten- und Ingenieur-Vereine. Württemberg Verein für Baukunde. 1884. (See Sd5-15.1.)
- 21 **SYNDICATE BUILDING, NEW YORK.** The Syndicate Building, southwest corner Nassau and Liberty Streets. Note: Short description and plans. N. Y., no date 1 p., pl., 9 x 12, pap. no title-page.
- 59 **TOMP KINS MARKET, NEW YORK.** Specifications, etc., for making alterations of a market building on the block fronting on Third Avenue between Sixth and Seventh Streets. New York Department of Public Works. N. Y., 1881. 20 pp., 14 x 8, pap. no title-page.



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- 61 **TREMONT HOUSE, BOSTON, MASS.** Description of Tremont House, with architectural illustrations. Bost., 1830. 36 pp., 1 + 31 pl., 13 x 10, bds.
- 48 **UNITED STATES CAPITOL, WASHINGTON, D. C.** Letter to the Chairman of the Committee on Public Buildings and Grounds, in relation to the dome and porticos of the Capitol. U. S.-Superintendent of the Capitol Extension. (36th Cong., 1st Sess. Senate misc. doc. No. 29.) no place, 1860. 147 pp., 9 x 6, b. p. no title-page.
- 48 —Report of the Joint Special Committee on Ventilation, Feb., 1865. (38th Cong., 2d Sess. Senate rep. com. No. 128.) no place, 1865. 62 pp., 9 x 6, b. p. no title-page.
- 27 —Report of the Committee appointed to examine into the present condition of the Senate Chamber and Hall of Representatives, as regards lighting, heating, and ventilation, etc. U. S.-Joint Special Committee on Ventilation. (41st Cong., 3d Sess. House rep., No. 49.) no place, 1871. 214 pp., pl., 9 x 6, pap. no title-page.
- 26 —Report on the ventilation of the Hall of Representatives and of the south wing of the Capitol of the United States; to Joseph Henry, T. Lincoln Casey, J. S. Billings, Edward Clark, F. Schumann, Commission of Inquiry. Robert Briggs. no place, 1876. 45 pp., 9 x 6, pap.
- 25 —Report on the ventilation of the Hall of the House of Representatives. U. S.-House Committee on Ventilation. (40th Cong., 3d Sess. House rep. No. 19.) no place, 1869. 30 pp., 9 x 6, pap. no title-page.
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- 52 **LUNDBORG, C. G.** Improvements in naval architecture. N. Y., 1885. 28 pp., il., 9 x 6, pap.
- 35 **LYONS, T. A.** Magnetism of iron and steel ships: An explanation of the various ways in which it affects the compass. (Naval Professional Papers, No. 17.) Wash., 1884. 123 pp., il., 18 pl., 26 tab., 9 x 6, cl.
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- 48 **MATTICE, A. M.** Queer doings in the Navy: A letter from an ex-naval officer. Note: Letter to Francis H. Wilson relating to House Bill, No. 3618, introduced by him to increase the numbers and change the status of the engineer officers of the Navy. no place, 1896. 34 pp., 9 x 6, pap.
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- 60 —Battles and capitulation of Santiago de Cuba (completed); tr. fr. the Spanish. (U. S. Office of Naval Intelligence. War Notes, No. 1.) Wash., 1899. 165 pp., maps, 9 x 6, pap.
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- 15 **PEAKE, JAMES.** Rudiments of naval architecture; or, an Exposition of the elementary principles of the science and their practical application to naval construction; compiled for the use of beginners. ed. 2. Lond., 1859. 8 + 132 pp., pl., 7 x 4, b. p.

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- 16 **POOK, S. M.** Method of comparing the lines and draughting vessels propelled by sail or steam; including a chapter on laying off on the mould loft floor. N. Y., 1866. 70 pp., pl., tab., 9 x 6, cl.
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- 13 **SÖMMERFELDT, H. A.** Elementary and practical principles of the construction of ships for ocean and river service; with an appendix of further investigations. Lond., 1860-61. 2 v., 7 x 4, cl.
- 33 **STATEMENT OF FACTS RELATING TO THE CORPS OF CIVIL ENGINEERS in the Navy:** The nature of their duties, responsibilities of their office and their relative rank, etc. no place, 1880. 12 pp., 9 x 6, pap. no title-page.
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- 53 **TRUTH ABOUT THE NAVY AND ITS COALING STATIONS; BY ONE WHO knows the facts.** (*Pall Mall Gazette Extra*, No. 12.) Lond., 1884. 64 pp., il., map, tab., 10 x 7, pap.
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- 34 — Tables of mortality in the United States Navy. Wash., 1867. 5 pp., 9 x 6, pap. no title-page.
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- 40 — Magnetism of ships and the deviations of the compass. Wash., 1867-69. 2 v., 9 x 6, 3/4 sh.
- 35 — Naval professional papers, Nos. 13-18, 20. Wash., 1883-86. 7 v. 9 x 6, cl.

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- 35 — Papers and discussions on ships, guns, and armor; reprinted from various sources. (Naval Professional Papers, No. 15.) Contents: Armored ships and modern guns. Modern merchant steamers. Bulkheads. Speed and carrying of screw steamers. On progressive trials. Wash., 1883. 119 pp., 8 pl., 6 tab., 9 x 6, cl.
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- 91 **UNITED STATES—BUREAU OF NAVIGATION (TREASURY DEPT.).** Annual report of the Commissioner of Navigation; 1st; 1884. Wash., 1884. 1 v., 9 x 6, pap.
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- 47 — Preliminary report of a Board of United States Naval Engineers on the Herreshoff launch and system of machinery for steam yachts, launches, etc. no place, 1880. 14 pp., 5 x 3, pap.
- 29 — Report made June 23d, 1885, by a Board of United States Naval Engineers on the relative steering efficiencies of the rudder alone, and of the Kunstadter system of combined rudder and swivelling screw as developed by the experiments made with the United States screw steamer *Nina*. N. Y., 1885. 75 + 4 pp., pl., 9 x 6, pap.
- 32 **UNITED STATES—COMMISSION ON SITE FOR NAVAL OBSERVATORY.** Report. Wash., 1879. 18 pp., maps, 9 x 6, pap.
- 72 **UNITED STATES—CORPS OF ENGINEERS.** Specifications, etc., for building six decked barges. New Orleans, 1899. 9 pp., 14 x 8, pap.
- 42 — Specifications, etc., for building two decked barges. no place, 1899. unpagcd, 14 x 8, pap. no title-page.
- 77 — Specifications, etc., for building two flat-bottomed wooden hull scows. Seattle, 1899. 7 pp., 14 x 8, pap. no title-page.
- 74 — Specifications, etc., for furnishing one steel snag-boat and one steel hull. Little Rock, 1899. 13 pp., 14 x 8, pap. no title-page.
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- 68 — Specifications, etc., for replating United States snagboat *J. N. Macomb*; removing obstructions in Mississippi River. no place, 1898. 8 + 4 pp., 14 x 8, pap. no title-page.
- 67 — Specifications, etc., for steel-hulled towboat. St. Louis, 1898. 28 pp., 14 x 8, pap. no title-page.
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- 17 **UNITED STATES—HYDROGRAPHIC OFFICE.** Annual report of the Hydrographer to the Bureau of Navigation; 1886-87. Wash., 1886-87. 2 v., 9 x 6, pap.
- 26 — Steam-lanes across the Atlantic. Wash., 1872. 19 pp., pl., map, 9 x 6, pap.
- 98 **UNITED STATES—LIFE-SAVING SERVICE.** Annual report for the fiscal year ending June 30th, 1884. (Treasury Department.) Wash., 1885. 1 v., il., pl., 9 x 6, cl.
- 88 **UNITED STATES—NAUTICAL ALMANAC OFFICE.** Report of the Superintendent, Je., 1887. Wash., 1887. 1 v., 9 x 6, pap.
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- 97 **UNITED STATES—NAVY DEPARTMENT.** Annual report of the Assistant Secretary; 1898. Wash., 1898. 1 v., 9 x 6, pap.
- 55 — Catalogue of the exhibit of the Navy Department at the Centennial Exposition of the Ohio Valley and Central States, at Cincinnati, Ohio, July 4th to Oct. 27th, 1888. no place, 1888. 70 + 1 pp., pl., 9 x 6, pap.
- 65 — Letter of the Secretary relative to the proposed establishment of naval stations on the American Isthmus. (46th Cong., 3d Sess. House ex. doc. No. 69.) Wash., 1881. 3 pp., 9 x 6, pap.



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- 6 —Register of the commissioned and warrant officers of the Navy of the United States, and of the Marine Corps; Jan., 1873, '75-76, Jan., '82, July, '82, Jan., '84, '86, Feb., '87, July, '95, Jan., '97, '99. Wash., 1873-99. 11 v., 9 x 6, pap.  
—Same; 1849. Wash., 1849. 1 v., 7 x 5, b. p. Af-3, p. 768.
- 21 —Regulations governing the uniform of commissioned officers, warrant officers, and enlisted men of the Navy of the United States. Wash., 1886. 26 pp., 31 + 23 pl., 9 x 6, cl.  
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- 99 —Report of the Secretary; 1863, '65-72, '75, '77, '85, v. 1, '86. Wash., 1863-86. 13 v., pl., maps, tab., 9 x 6, cl.  
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—Report of the Secretary in answer to a resolution of the Senate, communicating information in regard to the naval power of each maritime nation of the world, with the tonnage, number of merchant ships, and aggregate commerce of each. (29th Cong., 1st Sess. Senate No. 187.) no place, 1846. 19 pp., 9 x 6, b. p. no title-page. Cc-96, p. 333.  
—Rules for the inspection and measurement of timber for the navy of the United States; adopted by the Bureau of Construction, Equipment and Repairs, under the authority of the Secretary of the Navy, Sept., 1848. Wash., no date. 14 pp., il., pl., 8 x 5, b. p. Yh-146, p. 285.  
—Statement of contracts made by the Bureau of Ordnance and Hydrography, the Bureau of Construction, Equipment and Repairs, and the Bureau of Provisions and Clothing. (28th Cong., 1st Sess. House doc. No. 7.) no place, 1844. 22 pp., 9 x 6, b. p. Af-3, p. 744.
- 66 —Views of George W. Melville as to the strategic and commercial value of the Nicaraguan Canal, the future control of the Pacific Ocean, the strategic value of Hawaii, and its annexation to the United States. Wash., 1898. 33 pp., 9 x 6, pap.
- 63 **UNITED STATES—OFFICE OF NAVAL INTELLIGENCE.** Effect of the gun fire of the United States vessels in the battle of Manila Bay, May 1st, 1898; by John M. Ellicott. (War Notes, No. 5.) Wash., 1899. 13 pp., 9 x 6, pap.
- 71 —Notes on naval progress; 1882-99. (General Information Ser.) Wash., 1883-99. 23 v., 9 x 6, pap.  
—Report of the British naval and military operations in Egypt, 1882; by Casper F. Goodrich. (War Ser., No. 3.) 1883. (See La-25.)
- 86 —The Spanish-American War: A collection of documents relative to the squadron operations in the West Indies, arranged by Rear-Admiral Pascual Cervera y Topete; tr. fr. the Spanish. (War Notes, No. 7.) Wash., 1899. 165 pp., 9 x 6, pap.
- 59 —Views of Admiral Cervera regarding the Spanish Navy in the late war. Wash., 1898. 24 pp., 9 x 6, pap.
- 18 **UNITED STATES—ORDNANCE OFFICE.** Report on life-saving ordnance and appurtenances; by D. A. Lyle. Wash., 1878. 164 pp., 54 pl., 3 tab., 9 x 6, cl.
- UNITED STATES—PRESIDENT.** Reports from the War and Navy Departments from 1836-51 on the military and naval defences of the United States. no date. (See Lc-19.)
- 50 **UNITED STATES—TREASURY DEPARTMENT.** Rules and regulations relating to the anchorage of vessels in the Port of New York; 1889, '93. no place, 1889-93. 2 + 4 pp., map, 10 x 8, pap.
- 46 **UNITED STATES NAVAL INSTITUTE.** Notes on the yacht *Defender*, and the use of aluminum in marine construction, by Richmond Pearson Hobson. no place, no date. pp. 249-562, il., 9 x 6, pap.  
—Proceedings. (See Sa3-16.1.)
- WARRINGTON, LEWIS.** Memorial of Lewis Warrington, Captain in the United States Navy, in behalf of himself and the officers and crew of the U. S. sloop-of-war *Peacock*, praying that the one-half of the proceeds of the *Epervier* and goods, which went into the Treasury by mistake, be restored to the officers and crew of said vessel, it having been decreed to them by the United States Court as captors. (30th Cong., 1st Sess. House misc. doc. No. 74.) no place, 1848. 24 pp., 9 x 6, b. p. no title-page. Yh-150, p. 459.
- 39 **YACHTMAN'S ANNUAL GUIDE AND NAUTICAL CALENDAR; 1897.** Bost., 1897. 1 v., 10 x 7, pap.
- 4 **YOUNG, J. R.** Navigation and nautical astronomy, in theory and practice; with attempts to facilitate the finding of the time and the longitude at sea. Lond., 1858. 7 + 280 pp., 7 x 4, cl.
- 5 —Tables intended to facilitate the operations of navigation and nautical astronomy; as an accompaniment to the Navigation and Nautical Astronomy, vols. 99 and 100 of the Rudimentary Series. Lond., 1859. 50 + 136 pp., 7 x 4, cl.

## Kb

- 19 **BALTIMORE.** Description and views of the Baltimore Dry Dock Company's property, Baltimore, Md. no place, no date. unpagcd, pl., 10 x 13, cl. no title-page.
- BOSTON NAVY YARD.** Report of the Secretary in relation to the construction of a dry dock. U. S.-Navy Department. Wash., 1825. 22 pp., 9 x 6, b. p. Cc-148, p. 1.
- 6 — Specifications for a dry dock for the United States Government, at Boston. U. S.-Bureau of Yards and Docks. no place, 1898. 12 pp., 14 x 8, pap. no title-page.
- 20 **BROOKLYN NAVY YARD.** Documents relating to the construction of the Brooklyn Dry Dock. W. J. McAlpine. no place, 1850. 587 pp., 14 x 8, ½ cf. no title-page. manuscript.
- Documents relating to the purchase of the land lying between the Naval Hospital and Navy Yard, Brooklyn, N. Y., and in relation to the dry-dock at Brooklyn. U. S.-Navy Department. (30th Cong., 1st Sess. House misc. doc. No. 71.) Wash., 1848. 8 pp., 9 x 6, b. p. no title-page. Cc-96, p. 587.
- History of the commencement and progress of the United States dry-dock at the Brooklyn Navy Yard. no place, no date. pp. 352-405, 9 x 6, b. p. Ag-286, p. 492.
- Letter of the Secretary upon the subject of establishing navy yards at Great Barn Island, Perth Amboy, and Jersey City. U. S.-Navy Department. (24th Cong., 2d Sess. House doc. No. 18.) Wash., 1836. 10 pp., 9 x 6, b. p. no title-page. Cc-96, p. 1.
- Letter to the Mayor of New York on establishing a navy yard at Great Barn Island in the East River. J. W. Swift and W. G. McNeill. (25th Cong., 2d Sess. House doc. No. 222.) no place, 1838. 4 pp., 9 x 6, b. p. no title-page. Cc-96, p. 11.
- Memorial and resolutions relative to the survey of the waters within the Harbor of New York, for the establishment of a navy-yard. New York-Common Council. (28th Cong., 1st Sess. House doc. No. 172.) no place, 1844. 2 pp., 9 x 6, b. p. no title-page. Cc-96, p. 105.
- 21 — Miscellaneous memoranda relating principally to the construction of the United States dry dock at Brooklyn, N. Y.; with notes on iron dock-gates. W. J. McAlpine. no place, 1847 (?) 805 pp., il., 13 x 9, ½ cf. no title-page. manuscript.
- Opinions of the New York Press, expressed editorially, in favor of the sectional floating dry dock, preferring it to all others. Note: Relates to the proposed dock at the Brooklyn Navy Yard. Wash., 1843. 12 pp., 9 x 6, b. p. Cc-96, p. 27.
- Proposals for steam engine and pumps for dry dock, New York. U. S.-Bureau of Yards and Docks. Wash., 1849. 6 pp., 9 x 6, b. p. no title-page. Aj-1, p. 513.
- Report relative to the construction of a dry dock in New York Harbor, upon the plan of using, as an elevating power, the water of the Croton Aqueduct and also the several petitions praying that all further appropriation for building a dry dock be withheld until a proper examination shall be had of the various docks offered to the Navy Department in 1842. (28th Cong., 1st Sess. House rep. No. 198.) no place, 1844. 15 pp., 9 x 6, b. p. no title-page. Cc-96, p. 107.
- Report upon the subject of a dry dock at Brooklyn, in the State of New York. U. S.-Navy Commissioners. (25th Cong., 2d Sess. House doc. No. 293.) Wash., 1838. 4 pp., 9 x 6, b. p. no title-page. Cc-96, p. 15.
- Specifications for the construction of the wrought-iron floating caisson and the wrought-iron folding gates for the United States dry dock at the Brooklyn Navy Yard. W. J. McAlpine. N. Y., 1849. 27 pp., 9 x 6, b. p. Aj-1, p. 451.
- Speech on the Navy Appropriation Bill, which passed the House of Representatives on the 29th day of Jan., 1847. H. I. Seaman. Note: Speech relative to the appropriation of 275 000 dollars for the dry dock at the Brooklyn Navy Yard. no place, 1847. 7 pp., 9 x 6, b. p. no title-page. Cc-96, p. 393.
- DUBLIN, IRELAND.** On the wrought-iron dock gates of Dublin Graving Dock. J. P. Griffith. Dublin, 1880. 14 pp., 2 pl., 8 x 5, b. p. Kb-22, p. 1.

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- ALLEN, HORATIO.** Statement before the Naval Committee of the House of Representatives, establishing the superior stability of the sectional dock over that of the balance dock, and its superior advantages for naval purposes. Wash., 1846. 11 pp., 9 x 6, b. p. Cc-96, p. 301.
- Summary comparison of the stone dock with the sectional floating dock, when used in combination with a basin and arrangements to place ships on shore. Wash., 1846. 14 pp., 9 x 6, b. p. Cc-96, p. 313.
- BRIEF SKETCH OF THE PLAN AND ADVANTAGES OF A SECTIONAL floating dry dock,** combined with a permanent stone basin and platform, and connected with level bedway, sliding ways, and housed slips, for repairing, launching and laying up in ordinary, the ships of the United States Navy. N. Y., 1845. 44 pp., pl., 9 x 6, b. p. Cc-96, p. 257.

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- 5 **ENDICOTT, M. T.** Specifications for letters patent on improvements in dry docks. no place, 1892. 2 pp., 2 pl., 12 x 8, pap. no title-page.
- GILBERT, J. S.** Argument in favor of the iron balance dock. N. Y., 1844. 22 pp., 8 x 5, b. p. Ce-96, p. 43.
- Evidence and argument in support of the memorial for the construction of the galvanized iron balance dock, for the use of the Government. no place, 1846. 32 pp., pl., 9 x 6, b. p. Ce-96, p. 361.
- 9 **LATIMER, CLARK & STANDFIELD.** Patent gridiron stage and depositing dock. Lond., no date. unpag., il., 10 x 8, pap.
- 11 **LITTLE, J. J.** Report on the American system of dry docks. N. Y., 1882. 64 pp., 9 x 6, pap.
- 24 **MONCRIEFF, J. M.** Design and construction of dock-gates of iron and steel. Lond., 1894. 15 pp., pl., 9 x 5, pap.
- 10 **NYSTROM, J. W.** Description of a hydraulic pontoon-dock. St. Petersburg, 1859. 14 pp., pl., 10 x 9, pap.
- 1 **UNITED STATES—NAVY DEPARTMENT.** Report on European dock yards; by Philip Hichborn, U. S. N. Wash., 1886. 96 pp., 47 pl., 9 x 6,  $\frac{3}{4}$  mor.
- UNITED STATES—OFFICE OF NAVAL INTELLIGENCE.** Report upon the comparative merits of anthracite and bituminous coal for naval use. Note: Contains lists of the ports of the world having coaling, docking and repairing facilities. 1885. (See Ka-82.)
- 12 **HALIFAX, N. S.** Preliminary report on the proposed Halifax Dry Dock; and report on American stone and wooden docks. E. H. Keating. Halifax, 1883. 28 pp., 9 x 6, pap.
- 8 **MARE ISLAND NAVY YARD.** Notes on the dry dock and coffer-dam at the Navy Yard, Mare Island, Cal. Otto Von Geldern. no place, 1890. 20 pp., 5 pl., 10 x 7, pap.
- NEW YORK NAVY YARD.** See Brooklyn Navy Yard.
- 2 **NORFOLK NAVY YARD.** History of the United States Navy Yard at Gosport, Va., near Norfolk; by Edward P. Lull. U. S.-Bureau of Yards and Docks. Wash., 1874. 64 pp., 3 pl., 9 x 6, cl.
- PENSACOLA NAVY YARD.** Letter from the Secretary upon the subject of a dry dock and naval station at Pensacola, or some other place in the Gulf of Mexico. U. S.-Navy Department. (26th Cong., 1st Sess. House doc. No. 200.) Wash., 1840. 7 pp., 9 x 6, b. p. no title-page. Ce-96, p. 19.
- Letter of the Secretary transmitting a report of officers and engineers relative to the properties and advantages of a dry dock at Pensacola and at Portsmouth, N. H. U. S.-Navy Department. (28th Cong., 2d Sess. House doc. No. 163.) Wash., 1845. 79 + 7 pp., 9 x 6, b. p. Ce-96, p. 143.
- 17 —Notes of communications made at Pensacola Navy Yard between Dec., 1865, May, 1867. J. P. Kirkwood. Note: Contains diary fr. July 6th, 1871, to Jan. 24th, 1877. no place, no date. unpag., 9 x 8,  $\frac{3}{4}$  ro. manuscript.
- 13 —Plan of a ship basin and graving dock for the Pensacola Navy Yard. S. T. Abert. Wash., 1860. 16 pp., 9 x 6, pap.
- Report of the Committee to whom was referred the report of the Secretary of the Navy, on the subject of floating dry dock, basin and railways at the Navy Yards at Kittery, Philadelphia and Pensacola. U. S.-Committee on Naval Affairs. (30th Cong., 1st Sess. House rep. No. 106.) no place, 1848. 7 pp., 9 x 6, b. p. no title-page. Ce-96, p. 537.
- Report of the Secretary communicating plans and estimates for the construction of a permanent wharf and dry dock at Pensacola. U. S.-Navy Department. (28th Cong., 1st Sess. Senate doc. No. 134.) Wash., 1844. 21 pp., 9 x 6, b. p. Ce-96, p. 81.
- Report of the Secretary in relation to the construction of floating dry docks at Pensacola, Philadelphia and Kittery. U. S.-Navy Department. (30th Cong., 1st Sess. Senate ex. doc. No. 11.) Wash., 1847. 152 pp., pl., 9 x 6, b. p. Ce-96, p. 399.
- PHILADELPHIA NAVY YARD.** Report of the Committee to whom was referred the report of the Secretary of the Navy, on the subject of floating dry-docks, basin and railways at the navy-yards at Kittery, Philadelphia and Pensacola. U. S.-Committee on Naval Affairs. (30th Cong., 1st Sess. House rep. No. 106.) no place, 1848. 7 pp., 9 x 6, b. p. no title-page. Ce-96, p. 557.
- Report of the Naval Committee, to whom was referred sundry memorials and petitions from the inhabitants of Philadelphia, and of Kittery, Me., asking appropriations for the erection of dry docks at those two places. U. S.-Committee on Naval Affairs. (28th Cong., 1st Sess. House rep. No. 394.) no place, 1844. 4 pp., 9 x 6, b. p. Ce-96, p. 123.
- Report of the Secretary in relation to the construction of floating dry docks at Pensacola, Philadelphia and Kittery. U. S.-Navy Department. (30th Cong., 1st Sess. Senate ex. doc. No. 11.) Wash., 1847. 152 pp., pl., 9 x 6, b. p. Ce-96, p. 399.



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- Report on a memorial of a meeting of the citizens of Philadelphia, praying for the construction of a dry dock at the Navy Yard in that city, and the memorial of Dakin & Dodge, asking for the adoption of their sectional dock. U. S.-Committee on Naval Affairs. (29th Cong., 1st Sess. House rep. No. 649.) no place, 1846. 23 pp., pl., 9 x 6, b. p. Ce-96, p. 231.
- Report on sundry memorials and petitions of the citizens of Philadelphia City and County, and the citizens of Delaware County, Pa., asking for an appropriation for the erection of a dry dock at the Navy Yard at the Port of Philadelphia. U. S.-Committee on Naval Affairs. (29th Cong., 1st Sess. House rep. No. 111.) no place, 1846. 2 pp., 9 x 6, b. p. no title-page. Ce-96, p. 353.
- Report on the memorial of the people of the City and County of Philadelphia, praying for the construction of a dry dock at the Navy Yard of that port. U. S.-Committee on Commerce. (29th Cong., 1st Sess. House rep. No. 253.) no place, 1846. 4 pp., 9 x 6, b. p. no title-page. Ce-96, p. 329.
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- 7 **ST. JOHN'S, N. F.** Report on the wooden graving dock at St. John's, Newfoundland. E. H. Keating. no place, 1884. pp. 161-167, 9 x 6, pap.
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- GREAT BRITAIN—SELECT COMMITTEE ON ORDNANCE.** Report; together with the proceedings of the Committee, minutes of evidence, appendix and index. 1863. (See Ld-22.)

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- 13 **JAQUES, W. H.** Ericsson's *Destroyer* and submarine gun; being a consideration of their application to naval warfare, the advantages of the system, together with a short history of submarine artillery. N. Y., 1885. 48 pp., 6 pl., 8 x 5, pap.
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- 3 —Treatise on ordnance and naval gunnery; compiled and arranged as a text book for the United States Naval Academy. ed. 2, rev. and enl. N. Y., 1862. 493 pp., il., 5 pl., 9 x 6, ¼ ro.
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- 4 **UNITED STATES—BUREAU OF ORDNANCE.** Description of naval 3-in. B. L. howitzers, with instructions for their use and care, by Montgomery Sicard. no place, 1876. 57 pp., 5 pl., 9 x 6, pap.
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- Notes on naval progress; 1882-99. 1883-99. (See Ka-71.)
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- 15 **WIARD, NORMAN.** Marine artillery, as adapted for service on the coast, and on inland waters; the steamboats, the launches, the guns with sliding and field carriages and implements described as organized, invented, and adapted for service. N. Y., 1863. 37 pp., il., 9 x 6, pap.
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- 19 **BOWLES, F. T.** Ships of war; specially written for Johnson's Universal Cyclopedia. N. Y., no date. 32 pp., il., 11 x 7, pap.
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- 22 **EADS, J. B.** System of naval defences: Report to Gideon Welles, Secretary of the Navy, Feb. 22d, 1868. N. Y., 1868. 30 pp., 10 pl., 12 x 9, cl.
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- 16 **EXAMINATION OF THE NAVAL COMMITTEE OF THE SECOND SESSION OF** the Thirty-eighth Congress on naval steam machinery showing the misrepresentations resorted to by the Chief of the Bureau of Steam Engineering before that Committee; by a mechanical correspondent in the *N. Y. Times*; also the opinion of the principal engineering journals in England, on the practice of the Steam Bureau, etc. N. Y., 1866. 65 pp., 9 x 6, pap.
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- 9 **GALLWEY, E. P.** Use of torpedoes in war. no place, 1885. 26 pp., 4 pl., 8 x 5, pap. no title-page.
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- GREENE, S. D.** Electric lighting of the United States ships of war. 1887. (See Ka-71, No. 6, p. 45.)
- GRILLE, ANTOINE, and H. FALCONNET.** La marine des États-Unis. 1896. (See Yf-180, v. 7.)
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- 17 **JAQUES, W. H.** Armor-plate question. N. Y., 1894. 24 pp., il., 9 x 7, pap.
- 3 — Bethlehem armor and recent armor experiments at the Naval Ordnance Proving Ground, Annapolis, Md. no place, 1891. 27 pp., il., 5 + 2 pl., 10 x 8, pap.
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- 25 **NUÑEZ, S. G.** The Spanish-American War: Blockades and coast defence; tr. fr. the Spanish. (U. S. Office of Naval Intelligence. War Notes, No. 6.) Wash., 1899. 120 pp., il., map, 9 x 6, pap.
- REED, SIR E. J.** On the stability of monitors under canvas. 1869. (See Kd-7, p. 305.)
- 7 — Our iron-clad ships, their qualities, performances, and cost; with chapters on turret ships, iron-clad rams, etc. Lond., 1869. 32 + 332 pp., pl., 9 x 6, cl.
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- SAMPSON, W. T., and C. F. GOODRICH.** Report of the Committee upon ships of war, their armor, armament and draught of water. 1886. (See Lc-8, p. 105.)
- SAMUDA, J. D'A.** Armored ships and modern guns. 1883. (See Ka-35, No. 15, p. 15.)
- SCHROEDER, SEATON.** Development of the modern torpedo boat. 1886. (See Ka-71, No. 5, p. 117.)



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- SPRAGUE, F. J.** Application of electric light to men-of-war. 1883. (See Ka-71, No. 2, p. 161.)
- 15 **STEVENS IRON-CLAD BATTERY, THE.** Note: Report of the Commission appointed by the State of New Jersey to direct the completion and sale of the iron-clad battery bequeathed to the State by will of Edwin A. Stevens. N. Y., 1874. 46 pp., 8 pl., 9 x 6, pap.
- 23 **STOCKTON, R. F.** Speech on harbor defenses; delivered in the Senate of the United States, May 11th, 1852. Note: Urges the necessity of the construction of a floating battery for the defense of New York Harbor. Wash., 1852. 16 pp., 9 x 6, pap.
- 21 **STUART, C. B.** Naval and mail steamers of the United States. ed. 2. N. Y., 1853. 216 + 4 pp., il., por., 31 pl., 13 x 11, cl.
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- 26 —Iron manufactures in Great Britain (iron shipbuilding). no place, no date. 36 pp., il., 9 x 6, pap.
- TOBIN, J. A.** Torpedo boat construction in England. 1883. (See Kd-6, p. 35.)
- 24 **TOMMASI, DONATO.** Les bateaux hémi-plongeurs: Nouveau type de construction navale applicable soit à la marine marchande, soit à la marine de guerre. Paris, 1876. 40 pp., il., 9 x 6, pap.
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- 8 **UNITED STATES—BUREAU OF STEAM ENGINEERING.** Report on D. C. Green's system of ventilation. Note: Proposed ventilation for ships. Wash., 1879. 11 pp., pl., 9 x 6, pap.
- 6 —Report on improvements in naval engineering in Great Britain; by John A. Tobin, U. S. N. (47th Cong., 2d Sess. House ex. doc. No. 48.) Wash., 1883. 76 pp., pl., 25 tab., 9 x 6, cl.
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- 2 **UNITED STATES—NAVAL ADVISORY BOARD.** Report on the mild steel used in the construction of the hull, boilers, and machinery of the *Dolphin*, *Atlanta*, *Boston*, and *Chicago*, four steel vessels constructed under the acts of Aug. 5th, 1882, and Mar. 3d, 1883; prepared by R. Gatewood from the records of the Board. Wash., 1886. 216 pp., 26 + 1 pl., tab., 9 x 6, cl.
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- UNITED STATES—WAR DEPARTMENT.** Letter from the Secretary of War transmitting a report on a system of national defence and the establishment of national foundries. 1840. (See Lc-12.)
- 29 **WHAT KIND OF ARMOR SHALL WE USE?** no place, 1886 (?) 11 pp., 9 x 6, pap. no title-page.
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- 8 **BLAINE, J. G.** Speech delivered in the United States Senate, Jan. 27th, 1881, in reply to the speech of Senator Beck, of Kentucky, in favor of admitting foreign-built ships to the American registers free of duty; to which is appended the brief speech of Justin S. Morrill, of Vermont. Wash., 1881. 11 pp., 9 x 6, pap.
- 5 **BOSTON & BANGOR STEAMSHIP CO.** History of the B. & B. Steamship Co., formerly known as Sanford's Independent Line; 1823-1882. Bost., 1882. 26 pp., il., 9 x 6, pap.
- 6 **BROWN, DANIEL, et al. vs. THE BRIG ANNIE LINDSLEY.** United States District Court, Southern District of New York: Case relating to the sinking of the schooner *Sallie Smith* by the brig *Annie Lindsley*. N. Y., 1875. 31 pp., 11 x 7, pap.
- DUNN, JAMES.** Bulkheads for ships. 1883. (See Ka-35, No. 15, p. 52.)  
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- FRIEDMAN, ALEXANDER.** Navires pour la marine marchande, le marine de guerre et les eaux continentales. 1874. (See Cc-183a, p. 7.)
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- 13 **GRANTHAM, JOHN.** Iron as a material for ship-building; being a communication to the Polytechnic Society of Liverpool. Lond., 1842. 96 pp., 6 + 1 pl., 9 x 5, cl.
- 3 **HUËT, A.** Increasing dimensions of ocean steamers: A paper read before the meeting on Nov. 8th, 1887, of the Royal Netherlands Institute of Engineers; tr. fr. the Dutch, by P. L. van der Molens. Oxford, 1892. 12 pp., 9 x 6, pap.
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- STUART, C. B.** Naval and mail steamers of the United States. 1853. (See Kd-21.)
- TOMMASI, DONATO.** Les bateaux hémi-plongeurs: Nouveau type de construction navale applicable soit à la marine marchande, soit à la marine de guerre. 1876. (See Kd-24.)
- 1 **TWIN SCREW COASTING STEAMER MAZATTAN.** no place, no date. sheet, 28 x 20, pap.
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- 3 **ALLEN, THEODORE.** Iron hulls for western river steamboats. no place, 1873. 17 pp., pl., 9 x 6, pap.
- BOURNE, JOHN.** Resistance of vessels in water. 1868. (See Gc-1a, p. 270.)  
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- 4 **DOW, C. H., comp.** History of steam navigation between New York and Providence; compiled under the direction of D. S. Babcock. N. Y., 1877. 29 pp., 9 x 6, pap.
- 2 **GOLD, S. J.** Exposé of S. J. Gold's improvement in steamboats, viz.: The steamboat is made a life-boat, its speed is greatly increased, and its cost reduced. N. Y., 1868. 8 pp., 9 x 6, pap.
- LARDNER, DIONYSIUS.** Steam navigation. 1841. (See Gc-17a, p. 241.)
- 1 **MACFARLANE, ROBERT.** History of propellers and steam navigation; with biographical sketches of the early inventors. N. Y., 1851. 144 pp., il., 8 x 5, cl.
- 23 **MISSISSIPPI RIVER COMMISSION.** Specifications, etc., for furnishing three small steam tenders. St. Louis, 1898. 9 pp., 14 x 8, pap. no title-page.
- 18 —Specifications, etc., for large steam tenders. St. Louis, 1898. 20 pp., 14 x 8, pap. no title-page.

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- 7 — Specifications of the Mississippi River Commission towboat *Minnetonka*. no place, no date. 34 pp., 9 x 6, pap.
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- REDTENBACHER, F.** Der Bau der Dampfschiffe. 1865. (See Ga-119, p. 126.)
- RUSSELL, J. S.** On the nature, properties and applications of steam, and on steam navigation; from the seventh edition of the Encyclopædia Britannica. 1841. (See Gc-74.)
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- 17 **STEELE, W. R.** Steam launch construction: Four lectures delivered at the Sibpur Civil Engineering College in Apr., 1895. Calcutta, 1895. 42 pp., 16 pl., 13 x 8, pap.
- STEVENSON, DAVID.** Steam navigation in the United States. 1859. (See Cc-368a, p. 69.)
- THURSTON, R. H.** On the losses of propelling power in the paddle-wheel. Annapolis, 1866 (?) 3 pp., pl., 9 x 6, b. p. no title-page. Ka-85, p. 7.
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- UNITED STATES—BUREAU OF STEAM ENGINEERING.** Preliminary report of a Board of United States Naval Engineers on the Herreshoff launch and system of machinery for steam yachts, launches, etc. 1880. (See Ka-47.)
- 24 **UNITED STATES—CORPS OF ENGINEERS.** Specifications, etc., for building a steam vessel. Portland, 1898. 11 pp., 14 x 8, pap. no title-page.
- 27 — Specifications, etc., for building a steel hull tug boat. Seattle, 1898. 14 pp., 14 x 8, pap. no title-page.
- 28 — Specifications, etc., for constructing a steel screw steam tug. N. Y., 1899. 23 pp., 14 x 8, pap. no title-page.
- 26 — Specifications, etc., for construction of a steam tender. Louisville, 1898. 7 pp., 14 x 8, pap. no title-page.
- 19 — Specifications, etc., for construction of steel hull towboat, and furnishing outfit for same. Note: This is a stern-wheel steamer. Memphis, 1898. 16 pp., 14 x 8, pap. no title-page.
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- 21 — Specifications, etc., for steel hulled steam tenders. St. Louis, 1898. 16 pp., 14 x 8, pap. no title-page.
- 25 — Specifications, etc., for stern wheel steamboat for removing water hyacinths from streams in Louisiana. New Orleans, 1899. 6 pp., 14 x 8, pap. no title-page.
- 5 — Specifications, etc., for wooden hull steamboat for operating snagboats and dredge boats on Upper Mississippi River. Rock Island, 1900. 12 pp., 14 x 8, pap.
- UNITED STATES—HOUSE.** Report of the Select Committee on the memorial of James R. Skiles and others, in behalf of the heirs of James Rumsey. (25th Cong., 3d Sess. House rep. No. 265.) Note: Relative to the compensation to be given to the heirs of James Rumsey in recognition of his connection with the invention, and promotion of the use of, steamboats. no place, no date. 11 pp., 9 x 6, b. p. no title-page. Gc-13, p. 417.
- UNITED STATES—HOUSE SELECT COMMITTEE ON BOILER EXPLOSIONS.** Report of the Select Committee to whom was referred the report of the Secretary of the Treasury, and the documents accompanying the same, upon the subject of the explosions of boilers in boats propelled by steam. (22d Cong., 1st Sess. House rep. No. 478.) no date. (See Gd-44.)
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- WARD, J. H.** Construction of steamers, paddle wheels, and screws. 1860. (See Gc-73, p. 94.)
- 15 **WHITEMORE, HENRY,** comp. Advance sheets of origin and progress of steam navigation in America, containing an historical sketch of the ship building operations of Isaac and William H. Webb, during a period of over half a century; together with a description of Webb's Academy and Home for Shipbuilders. N. Y., 1890. 17 + 18 pp., il., 12 x 9, pap.
- WHITTLESEY, CHARLES.** Model of a steam scow and railroad car, attributed to John Fitch. no date. (See Ad-163.)



# MILITARY.

## MILITARY—GENERAL.

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- BUEL, DON CARLOS.** Statement in review of the evidence before the Military Commission, appointed by the War Department in Nov., 1862. no place, no date. 71 + 1 pp., 9 x 6, b. p. Aj-3, p. 899.
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- 2 **FORBES, HUGH.** Manual for the patriotic volunteer of active service in regular and irregular war; being the art and science of obtaining and maintaining liberty and independence. ed. 2. N. Y., 1855. 1 v., 6 x 4, cl.
- 14 **FRY, J. B.** Killed by a brother soldier: A chapter in the history of the War. Note: Relates to the shooting of General Nelson by General Davis. N. Y., 1855. 15 pp., 9 x 6, pap.
- GILMAN, H. K.** Naval brigade and operations ashore: A handbook for field service, prepared from official and standard authorities. 1886. (See Ka-35, No. 20.)
- 31 **GREAT BRITAIN—COMMISSION FOR THE TRAINING OF OFFICERS.** Report of the Commissioners appointed to consider the best mode of re-organizing the system for training officers for the Scientific Corps; together with an account of foreign and other military education. Lond., 1857. 2 v. in 1, pl., 13 x 8, ½ skiv.
- HAFERKORN, H. E., and PAUL HEISE.** Handy list of books on military and naval science, navigation, etc. 1890. (See U-85, v. 2.)
- 1 **HALLECK, H. W.** Elements of military art and science; or, Course of instruction in strategy, fortification, tactics of battles, etc.; embracing the duties of staff, infantry, cavalry, artillery and engineers; adapted to the use of volunteers and militia. N. Y., 1846. 411 pp., pl., 8 x 5, cl.
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- JACKSON, BASIL.** Course of military surveying, including instructions for sketching in the field, plan drawing, levelling, military reconnaissance, etc.; also, a particular description of the surveying instruments commonly employed by military men in the field, with explanations of the methods of using them, and instructions for their adjustment. 1838. (See R-37.)
- KONINKLIJK INSTITUUT VAN INGENIEURS.** Militaire zaken. 1897. (See Sd9-2.4, p. 199.)
- LAISNÉ, J.** Aide-memoire portatif à l'usage des officiers du génie. 1861. (See V-38.)
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- 12 **MICHAELIS, O. E.** The army of Kukuanaaland. Phil., 1889. 18 pp., 9 x 6, pap.
- 13 —The military necessities of the United States, and the best provisions for meeting them. no place, 1884. 22 pp., 9 x 6, pap.
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- MÜLLER Y TEJEIRO, JOSE.** Battles and capitulation of Santiago de Cuba (completed); tr. fr. the Spanish. 1899. (See Ka-60.)
- NAVAL AND MILITARY TECHNICAL DICTIONARY OF THE FRENCH language;** with explanations of the various terms, by Burn. 1853. (See U-7.)
- 27 **NEW JERSEY—ADJUTANT-GENERAL.** Record of officers and men of New Jersey in the Civil War, 1861-65. Trenton, 1876. 2 v., 12 x 9, ½ mor.
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- NORRMAN, V.** Military bridge-equipage. 1876. (See Fa-80.)
- NORTON, C. B., and W. J. VALENTINE.** Report on the munitions of war. 1868. (See Yf-10, v. 5, p. 1.)
- PENNSYLVANIA—COMMITTEE ON MILITIA SYSTEM.** Report of the Committee on that part of the Governor's message relating to the militia and volunteers, and the proceedings of the Military Convention which were referred to them. Harrisburg, 1832. 10 pp., 8 x 5, b. p. Cfe-28, p. 88.
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- 26 **RECUEIL DES TRAVAUX TECHNIQUES DES OFFICIERS DU GÉNIE DE l'armée belge;** v. 1-2. Bruxelles, 1897-1900. 2 v., pl., 10 x 6, pap.
- ROYAL UNITED SERVICE INSTITUTION.** Journal. (See Sd6-12.1.)
- 3 **SCOTT, H. L.** Military dictionary; comprising technical definitions, information on raising and keeping troops, actual service, including makeshifts and improved material, and law, government, regulation, and administration relating to land forces. N. Y., 1864. 674 pp., il., 9 x 7, cl.
- 18 **SPECIAL COURT OF INQUIRY UPON CHARGES AGAINST BRIGADIER-General O. O. Howard.** Note: Charges relate to alleged misapplication of funds appropriated to the Freedmen's Bureau. no place. 1874. 49 pp., 9 x 6, pap. no title-page.
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- UNITED STATES—CHICKAMAUGA AND CHATTANOOGA NATIONAL PARK Commission.** Atlas of the battlefields of Chickamauga, Chattanooga and vicinity. 1896-97. (See Qf-278.)
- UNITED STATES—CONGRESS.** Laws of the United States relating to the Ordnance Department, from Apr. 2, 1794, to Mar. 3d, 1863; compiled for the use of the officers of the Ordnance Department, U. S. A. (Ordnance Memoranda, No. 4.) Wash., 1863. 42 pp., 9 x 6, b. p. Ld-10, p. 51.
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- 5 —Engineer and artillery operations against the defences of Charleston Harbor, in 1863; with a supplement by Q. A. Gillmore. (Professional Papers, Corps of Engineers, No. 16.) N. Y., 1868. 314 + 172 pp., il., 39 + 7 pl., 10 x 6, pap.
- Maps illustrating the battlefields of the War of the Rebellion. 1867 (?) (See Qf-214.)
- 15 —Quarterly statement, showing rank, duties, and addresses of the officers of the Corps of Engineers, Jan., 1875, Jan., 1879, Oct., 1884, Apr.-Oct., 1885, Jan.-Oct., 1886, Jan., 1888-Apr., 1894. no place, 1875-94. 34 v., 10 x 8, pap.
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- 17 **UNITED STATES—MILITARY ACADEMY.** Official register of the officers and cadets; 1896. West Point, 1896. 1 v., 7 x 5, pap.
- 20 **UNITED STATES—OFFICE OF NAVAL INTELLIGENCE.** Chilean Revolution of 1891; by James H. Sears and B. W. Wells, Jr. (War Ser., No. 4.) Wash., 1893. 66 pp., pl., maps, 9 x 6, pap.
- 25 —Report of the British naval and military operations in Egypt, 1882; by Casper F. Goodrich. (War Ser., No. 3.) Wash., 1883. 2 v., pl., 9 x 6, pap.
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- 11 —Infantry equipments; cavalry equipments; knapsacks, haversacks, canteens, etc.; horse equipments; tools and materials for cavalry. (Ordnance Memoranda, No. 13.) no place, 1872. 19 pp., 9 x 6, pap.
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- Report of surgical cases treated in the army of the United States from 1865 to 1871. 1871. (See Eg-87.)

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- 8 — Report on barracks and hospitals, with descriptions of military posts. Wash., 1870. 494 pp., il., 12 pl., 12 x 9, pap.
- 32 **UNITED STATES—WAR DEPARTMENT.** Annual report of the Secretary of War; June, 1872, '96. Wash., 1872-96. 2 v., pl., maps, tab., 9 x 6, cl.
- 30 — Compilation of official documents illustrative of the organization of the Army of the United States from 1789 to 1876, for the use of the Board for the Re-organization of the Army, Sept. 1st, 1876. Wash., 1876. 103 pp., tab., 13 x 8, pap.
- 6 — Letter of the Secretary of War, transmitting report on the organization of the Army of the Potomac and of its campaigns in Virginia and Maryland under the command of Maj.-Gen. George B. McClellan, from July 26th, 1861, to Nov. 7th, 1862. Wash., 1864. 242 pp., 9 x 6, cl.
- 29 — Military Commission to Europe, in 1855 and 1856: Report of Major Alfred Mordecai, of the Ordnance Department. Wash., 1860. 232 pp., pl., 12 x 9, cl.
- 9 — Official army register; 1867, '72, '75-83, '85-95, '97-98. Wash., 1867-98. 24 v., 8 x 5, 9 x 6, pap.
- Report of a military reconnaissance in Alaska, made in 1883 by Frederick Schwatka. 1885. (See Qc-116.)
- Report of the Secretary. Note: A partial report of the operations of the troops during the Mexican War. 1848. (See Zj-64, pp. 45, 613.)
- 28 — Report on the art of war in Europe in 1854, 1855, and 1856; by Major Richard Delafield, from his notes and observations made as a member of a "Military Commission to the Theatre of War in Europe," under the orders of Jefferson Davis, Secretary of War. (36th Cong., 1st Sess. Senate ex. doc. No. 59.) Wash., 1860. 16 + 287 pp., il., pl., 12 x 9, cl.

**MILITARY—TACTICS.****Lb**

- 3 **DUFOUR, G. H.** Strategy and tactics; tr. from the latest French edition, by William P. Craighill. ed. 2. N. Y., 1878. 4 + 400 pp., il., 7 x 5, cl.
- HALLECK, H. W.** Tactics. 1846. (See La-1, p. 114.)
- 1 **HARDEE, W. J.** Rifle and light infantry tactics; for the exercise and manœuvres of troops when acting as light infantry or riflemen. Phil., 1861. 2 v., il., 5 x 4, cl.
- 2 **SCOTT, WINFIELD.** Infantry tactics; or, Rules for the exercise and manœuvres of the United States Infantry. new ed. N. Y., 1861. 3 v., 64 pl., 6 x 4, ½ cl.
- 4 **TAUBERT.** On the use of field artillery on service, with especial reference to that of an army corps. for officers of all arms; tr. fr. the German, by Henry Hamilton Maxwell. (Rudimentary Military Ser.) Lond., 1856. 12 + 215 pp., 7 x 4, cl.
- UNITED STATES—BUREAU OF NAVIGATION.** Training of enlisted men. (Naval Professional Papers, No. 18.) Wash., 1885. 96 pp., 2 pl., 9 x 6, cl. Ka-35, No. 18.

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- 9 **BARNARD, J. G.** Notes on sea-coast defences; consisting of sea-coast fortifications, the fifteen-inch gun, and casemate embrasures. N. Y., 1861. 110 + 1 pp., 9 x 6, cl.
- CHASE, W. H.** Memoir on the defence of the Gulf of Mexico and the strategic principles governing the national defences. New Orleans, 1846. 19 + 11 pp., pl., 9 x 6, b. p. Yd-27, p. 345.
- 37 **COIGNET, P.** Note sur les chapes de voutes en mastic bitumineux de seysse à l'épreuve de la bombe, exécutées en 1833 et années suivantes dans la Place de Vincennes. Paris, 1875. 12 pp., 8 x 5, pap.
- DOULL, ALEXANDER.** Improved system of fortification. 1866. (See Cc-233, p. 14.)
- 38 **EXPÉRIENCES DE FORCE ET DE TRACTION SUR DES TOLES SUÉDOISES** produites par des procédés divers, faites aux frais du Comptoir des Forges (Jernkontoret). Stockholm, 1878. 15 pp., tab., 11 x 8, pap.
- 18 **GARRISON, F. L.** Development of American armor plate. Phil., 1892. 75 pp., il., pl., tab., 9 x 6, pap.
- 20 **GUARASCI, CÆSAR.** Studies on coast defences applied to the Gulf of Spezia; tr. by G. McC. Derby. (Engineer Department, U. S. Army.) Wash., 1884. 20 pp., 3 pl., 9 x 6, pap.
- HALLECK, H. W.** Fortifications. 1846. (See La-1, pp. 61, 155, 210, 327, 342.)
- HANSEN, P.** Breakwater and Port of Middelgrunden Fort in The Sound. (International Maritime Cong., 2d.) 1893. (See Ca-22.2, v. 1, p. 31.)



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- 25 **HAUPT, HERMAN.** Letter to John P. Hale, Chairman of Committee on Naval Affairs, on the subject of coast and harbor defences, and armor for war vessels. no place, 1862. 4 pp., 9 x 6, pap. no title-page.
- 16 **JAQUES, W. H.** Modern armor for national defence; presenting practical information about material, methods of manufacture, cost, development, tests and application, effects of fire, resistance of plates and a comparison of the results that have been obtained at the most important competition trials, together with statistics. ed. 2. N. Y., 1886. 48 pp., 11 pl., 8 x 5, pap.
- 5 **LENDY, A. F.** Treatise on fortification; or, Lectures delivered to officers reading for the staff. Lond., 1862. 15 + 538 pp., il., 10 x 7, cl.
- 23 **NIMMO, JOSEPH, Jr.** Sea-coast defences of New York City, Long Island, Staten Island, and Connecticut. no place, 1886. 25 pp., 6 x 3, pap.
- 1 **MACAULAY, J. S.** Treatise on field fortification and other subjects connected with the duties of the field engineer. Lond., 1834. 2 v., il., pl., 7 x 5, 11 x 6, ½ sh.
- 3 **MAHAN, D. H.** Descriptive geometry, as applied to the drawing of fortification and stereotomy; for the use of the cadets at the United States Military Academy. N. Y., 1864. 55 pp., 8 pl., 9 x 6, cl.
- 22 **MILITARY SERVICE INSTITUTION OF THE UNITED STATES.** Our sea-coast defences; by Eugene Griffin. (Military Monographs, No. 1.) Contents: Pt. 1, Our sea-coast defences, past and present. Pt. 2, Necessity of sea-coast defences. Pt. 3, Modern sea-coast defences. Pt. 4, The question of armor. N. Y., 1885. 62 pp., 9 x 6, pap.
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- NUÑEZ, S. G.** The Spanish-American War: Blockades and coast defense; tr. fr. the Spanish. 1899. (See Kd-25.)
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- 42 **RYAN, J. T.** Specifications of a revolving iron fort, mounting eight 15-in. guns. N. Y., 1867. 29 pp., 9 x 6, pap.
- 4 **SCHÜTZ, JULIUS VON.** Gruson's chilled cast-iron armour; tr. into English, by Commander H. H. Grenfell. Lond., 1887. 144 pp., il., tab., 10 x 7, ½ cl.
- 24 **SUBMARINE ELECTRICAL FISH TORPEDO; CONSTRUCTED BY THE SIMS** Electrical Fish Torpedo Co., N. Y. no place, no date. pl., 16 x 10, pap. no title-page.
- 8 **UNITED STATES—BOARD ON FORTIFICATIONS AND OTHER DEFENSES.** Report of the Board appointed by the President of the United States under the provisions of the Act of Congress approved Mar. 3d, 1885. (49th Cong., 1st Sess. House ex. doc. No. 49.) Wash., 1886. 388 pp., 59 pl., 11 x 9, pap.
- 48 **UNITED STATES—CORPS OF ENGINEERS.** Fortifications of to-day; fire against models of coast batteries and paradors; horizontal and curved fire in defense of coasts; tr. under the direction of the Board of Engineers for Fortifications. Wash., 1883. 23 pp., 12 x 9, cl.
- 17 —Professional notes; by Edward Maguire. Note: On the perforation of armored walls. Wash., 1884. 28 pp., il., 9 x 6, pap.
- 21 —Proposal for constructing a mortar battery on Admiralty Head, Washington. no place, 1898. 15 pp., 14 x 8, pap.
- 45 —Report on certain experimental and theoretical investigations relative to the quality, form, and combination of materials for defensive armor, together with incidental facts relative to their use for industrial purposes; by W. R. King. Wash., 1870. 107 pp., 27 pl., tab., 12 x 9, cl.
- 46 —Report on the defenses of Washington, by Chief of Engineers, U. S. Army; by J. S. Barnard. (Professional Papers, Corps of Engineers, No. 20.) Wash., 1871. 152 pp., pl., maps, 12 x 9, cl.
- 47 —Report on the fabrication of iron for defensive purposes and its use in modern fortifications, especially in works of coast defense. (Professional Papers, Corps of Engineers, No. 21.) Wash., 1871-72. 2 v., il., pl., maps, 12 x 9, ½ mor.
- 49 —Report upon experiments and investigations to develop a system of submarine mines for defending the harbors of the United States; submitted to the Board of Engineers by Henry L. Abbot. (Professional Papers, Corps of Engineers, No. 23.) Wash., 1881. 444 pp., il., 27 pl., 11 x 9, pap.
- 14 —Report upon the blasting operations at Lime Point, Cal., in 1868 and 1869, by G. H. Mendell. Note: Lime Point is the site of a proposed casemated work for the defense of the harbor of San Francisco. Wash., 1880. 12 pp., pl., 9 x 6, pap.
- 36 —Specifications, etc., for ammunition hoists and delivery doors at New London, Ct. New London, 1900. 8 pp., 14 x 8, pap. no title-page.
- 33 —Specifications, etc., for construction of mortar battery at Peddocks Island, Mass. Bost., 1898. 20 pp., 14 x 8, pap. no title-page.
- 40 —Specifications, etc., for furnishing and delivering ammunition hoists at Fort Delaware, Del. Phil., 1900. unpag., 13 x 8, pap.

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- 30 — Specifications, etc., for furnishing and delivering materials for batteries at Tampa Bay, Fla. St. Augustine, 1898-99. 2 v., 14 x 8, pap. no title-page.
- 32 — Specifications, etc., for furnishing and delivering materials for gun emplacements. Balt., 1899. 13 pp., 14 x 8, pap. no title-page.
- 26 — Specifications, etc., for furnishing and delivering materials for gun emplacements at Fort Monroe, Va. Norfolk, 1898. 11 pp., 14 x 8, pap. no title-page.
- 27 — Specifications, etc., for furnishing and delivering materials for gun emplacements at North Point, Md. Balt., 1899. 11 pp., 14 x 8, pap. no title-page.
- 29 — Specifications, etc., for furnishing material for construction of mortar battery, Fort Greble, R. I. Newport, 1898. 7 pp., 14 x 8, pap. no title-page.
- 39 — Specifications, etc., for gun emplacements on Fisher's Island, N. Y. New London, 1898. 10 pp., 14 x 8, pap. no title-page.
- 35 — Specifications, etc., for moving gun carriages and base-rings at Fort Baker, Cal. San Fran., 1899. 8 pp., 14 x 8, pap. no title-page.
- 34 — Specifications, etc., for sand for gun emplacements on Fisher's Island, N. Y. New London, 1899. 6 pp., 14 x 8, pap. no title-page.
- 11 **UNITED STATES—ENGINEER DEPARTMENT.** Report, addressed to Jefferson Davis, Secretary of War, on the effects of firing with heavy ordnance from casemate embrasures; and also the effects of firing against the same embrasures with various kinds of missiles in the years 1852, '53, '54 and '55 at West Point, N. Y., by J. G. Totten. (Papers on Practical Engineering, No. 6.) Wash., 1857. pp. 32-182, il., pl., 19 tab., 9 x 6, pap.
- 13 — Report of J. G. Totten, Chief Engineer, on the subject of national defences. Wash., 1851. 108 pp., 9 x 6, pap.
- 7 **UNITED STATES—HOUSE COMMITTEE ON MILITARY AFFAIRS.** Report on permanent fortifications and sea-coast defences. (37th Cong., 2d Sess. House Rep. No. 86.) no place, 1862. 528 pp., 9 x 6, cl. no title-page.
- 19 **UNITED STATES—PRESIDENT.** Reports from the War and Navy Departments from 1836-1851, on the military and naval defences of the United States. (37th Cong., 2d Sess. House ex. doc. No. 92.) no place, no date. 415 pp., 9 x 6, pap. no title-page.
- UNITED STATES—WAR DEPARTMENT.** English, Austrian, and Prussian systems of harbor defences. 1860. (See La-28, pp. 139, 149 and 150.)
- 12 — Letter from the Secretary of War transmitting a report on a system of national defense and the establishment of national foundries. (26th Cong., 1st Sess. House doc. No. 206.) no place, 1840. 143 pp., 9 x 6, pap. no title-page.
- Report on the art of war in Europe in 1854, 1855, and 1856; by Major Richard Delafield, from his notes and observations made as a member of a "Military Commission to the Theatre of War in Europe," under the orders of Jefferson Davis, Secretary of War." 1860. (See La-28.)
- 2 **VAUBAN, DE.** New method of fortification. Lond., 1722. 14 + 213 pp., pl., 8 x 5, sh.
- VERBAND DEUTSCHER ARCHITEKTEN UND INGENIEURE.** Mittheilungen über Wiesbaden und vom Mittelrhein: Festschrift zu der Wander-Versammlung des Verbandes, in Wiesbaden, vom 15 bis 23, Sept., 1880. 1880. (See Sd5-5. 3.)
- 6 **VILLENEUVE.** Manuel pratique du mineur à l'usage des troupes du génie. Paris, 1826. 168 pp., 3 pl., 7 x 4, ¼ cf.

**MILITARY—ORDNANCE.****Ld**

- 69 **ABEL, F. A.** On recent investigations and applications of explosive agents. Wash., 1871. 35 pp., pl., 9 x 6, pap.
- AUSTRIA—K. K. HYDROGRAPHISCHES AMT.** Mittheilungen aus dem Gebiete des Seewesens. 1873-75. (See Ka-102.)
- BARNARD, J. G.** Notes on sea-coast defences; consisting of sea-coast fortification, the fifteen-inch gun, and casemate embrasures. 1861. (See Lc-9.)
- 7 **BENTON, J. G.** Course of instruction in ordnance and gunnery, composed and compiled for the use of the cadets of the United States Military Academy. N. Y., 1861. 518 pp., il., 9 x 6, cl.
- Gunpowder. 1861. (See Ld-7, p. 1.)
- BERTHELOT, P. E.** Explosive materials. 1883. (See Ma-49.)
- BRAUN, KARL.** Short historical sketch of gunpowder; tr. by John P. Wisser. 1883. (See Ma-49, p. 119.)
- 76 **BUTLER, J. G.** Systems of projectiles and rifling, with practical suggestions for their improvement, as embraced in a report to the Chief of Ordnance, U. S. A.; with appendix, containing the report of the Board of Experimental Rifled Guns, on the proof of an eight-inch converted rifle. N. Y., 1875. 164 pp., pl., tab. 12 x 9, cl.

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- 10 **DESCRIPTION AND RULES FOR THE MANAGEMENT OF THE SPRINGFIELD** breech-loading rifle musket, model, 1866. Springfield, 1867. 8+1 pp., 9 x 6, b. p.
- DESCRIPTION OF BOLTS, NUTS, RIVETS, ETC., USED FOR ARTILLERY** carriages. no place, no date. 9 pp., 8 x 5, b. p. no title-page. Yh-146, p. 251.
- 56 **DOPPELMAIR, C. VON.** Critical comparison of the Prussian cast-steel breech-loading rifled guns of large caliber and the English "Woolwich" rifled muzzle-loading guns, on the basis of the experiments at Tegel in the year 1868; tr. by G. H. Penton. Lond., 1870. 86 pp., pl., 22 tab., 8 x 5, pap.
- EISSLER, MANUEL.** Modern high explosives; nitro-glycerine and dynamite; their manufacture, their use, and their applications to mining and military engineering. 1889. (See Ma-55.)
- 68 **FARLEY, J. P.** High explosives and smokeless powders. no place, no date. 24 pp., 9 x 6, pap.
- FRENCH MITRAILLEUSE: A FULL AND COMPLETE DESCRIPTION OF ITS** construction, service, etc.; tr. fr. the German by W. M. Folger. Wash., 1873. 12 pp., il., 4 pl., 9 x 6, b. p. De-876, p. 313.
- 38 **GLENNON, J. H.** Interior ballistics, with a short treatment of the more common high explosives. Balt., 1894. 9+152 pp., 9 x 6, pap.
- 40 —Velocity of combustion of an explosive under variable pressure. no place, no date. pp. 449-451, 9 x 6, pap.
- 22 **GREAT BRITAIN—SELECT COMMITTEE ON ORDNANCE.** Report; together with the proceedings of the Committee, minutes of evidence, appendix and index. no place, 1863. 32+696 pp., pl., 13 x 8, pap.
- GREAT BRITAIN—PARLIAMENT.** British explosive laws, 1875-83. 1892. (See Zd-14, Special consular reports, v. 8, p. 231.)
- 5 **GREENER, WILLIAM.** Gunnery in 1858; being a treatise on rifles, cannon, and sporting arms; explaining the principles of the science of gunnery and describing the newest improvements in fire-arms. Lond., 1858. 16+439 pp., il., 5 pl., 9 x 6, cl.
- History, use, and nature of gunpowder. 1858. (See Ld-5, p. 18.)
- GRILLE, ANTOINE, and H. FALCONNET.** Les arts militaires aux États-Unis et à l'Exposition de Chicago. 1894. (See Yf-130, v. 5.)
- 70 **HILL, W. N.** Notes on certain explosive agents. Bost., 1875. 71 pp., pl., 9 x 6, pap.
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# MINING.

## MINING—GENERAL.

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- 6 **WHITNEY, J. D.** Metallic wealth of the United States; described and compared with that of other countries. Phil., 1854. 510 pp., il., 3 pl., 10 x 6, cl.
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- 38 **WITWATERSRAND CHAMBER OF MINES.** Annual report; 4th; 1892. Johannesburg, 1893. 1 v., map, tab., 11 x 8, pap.

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- 36 **ALLEGHANY R. R & COAL CO.** Report of the Directors to the Stockholders; 3d; 1855. Phil., 1855. 1 v., 9 x 6, pap.
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- 53 **ATKINSON, J. J.** Practical treatise on the gases met with in coal mines. (Van Nostrand's Science Ser.) N. Y., 1875. 53 pp., 6 x 4, bds.
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- 21 **BLACKWELL, J. K.** Report on ventilation of mines, 25th Mar., 1850. Lond., 1850. 27 pp., pl., 13 x 8, b. p.
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- 14 **CLEARFIELD COAL & LUMBER CO.** Annual report; 1st. Phil., 1856. 1 v., pl., map., 9 x 6, pap.
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- 25 **CUMBERLAND & PENNSYLVANIA R. R.** Statistics of the Cumberland coal trade from its commencement; 1842-1874. Cumberland, no date. 2 tab., 10 x 8, pap.
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- 15 **EAGLETON COAL CO.** Report of the Board of Directors to the Stockholders; 1862. N. Y., 1862. 27 pp., map, 9 x 6, pap.
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- 42 **GARFORTH, W. E.** Suggested rules for the recovery of coal mines after explosions: A paper read before the Federated Institution of Mining Engineers, 1897. Lond., 1898. 41 pp., pl., 10 x 6, pap.
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- 5 **GILPIN, EDWIN, Jr.** Use of safe explosives in mines. Note: Relates to the use of explosives in coal mines. no place, no date. 2 v., 9 x 6, pap. no title-page.
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- GOWEN, F. B.** Argument before the Judiciary Committee of the Senate of Pennsylvania on behalf of the railroad and mining interests of Pennsylvania, Mar. 30th, 1871. 1871. (See Af-39.)
- 19 **GREAT BRITAIN—ACCIDENTS IN MINES COMMISSION.** Final report of Her Majesty's Commissioners appointed to inquire into accidents in mines and the possible means of preventing their occurrence or limiting their disastrous consequences; together with evidence and appendices. Lond., 1866. 219 + 31 + 101 pp., il., pl., 13 x 8, pap.
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- 21 **GREAT BRITAIN—SELECT COMMITTEE ON ACCIDENTS IN COAL MINES.** Report from the Select Committee of the House of Lords appointed to inquire into the best means of preventing the occurrence of dangerous accidents in coal mines and to report thereon to the House; together with the minutes of evidence and an appendix and index thereto, Session 1849. no place, 1849. 640 pp., il., 31 pl., 13 x 8, b. p.
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- 16 **HAZELTON COAL CO.** Report of the Board of Directors to the Stockholders; 1859, '63. Phil., 1858-64. 2 v., maps, 9 x 6, pap.
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- HODGE, J. T.** Report on the coal deposits in the Rocky Mountains, to the Union Pacific R. R. Co. 1864. (See Ab-124.)
- HUGHES, G. W.** Report on a survey of the bituminous coal regions of Alleghany County, and of a railroad to accommodate the trade of the Maryland Mining Co Wash., 1836. pp. 13-59, pl., 9 x 6, b. p. Cfb-5, p. 311.



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- ILLINOIS—GEOLOGICAL SURVEY.** Abstract of a report on Illinois coals; with descriptions and analyses, and a general notice of the coal fields; by J. G. Norwood. 1857. (See Yh-132.)
- 2 **ILLINOIS—STATE BUREAU OF LABOR STATISTICS.** Statistics of coal in Illinois, 1885; A supplemental report containing the annual reports of Mine Inspectors. Springfield, 1885. 25 + 185 pp., pl., 9 x 6, pap.
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- JOHNSON, E. F., and W. R. CASEY.** Reports on the Bear Mountain R. R., and on the coal and iron ores of the Bear Valley coal basin, by James Hall. 1845. (See Ab-215.)
- 35 **JOHNSON, WILLIAM.** Brunton's heading machine: A paper, read before the Chesterfield and Derbyshire Institute of Engineers. Lond., 1875. pp. 361-368, pl., 8 x 5, pap.
- KENT, WILLIAM.** Tests of the heating power of coals. 1893. (See Ma-12, v. 1, p. 97.)
- KENTUCKY—GEOLOGICAL SURVEY.** Reports on the Eastern, Southwestern and Western coal fields. 1884-85. (See Yh-20, v. 5-7.)
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- Special report on the coal-fields of Little Sequatchee; with a general description of the Cumberland Table-land. 1876. (See Yh-134.)
- 8 **LA SALLE COAL MINING CO.** Charter and by-laws, with report of the Manager, together with maps and geological sections. La Salle, 1856. 23 pp., pl., maps; tab., 9 x 5, pap.
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- 51 **LEHIGH & WILKESBARRE COAL CO.** Plans of fire, Kidder Slope. Wilkesbarre, 1874. 5 pl., 18 x 29, pap.
- 9 **LITTLE BLACK CREEK COAL CO.** Prospectus. no place, no date. 10 pp., 9 x 6, pap.
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- 17 — Coal catechism. Phil., 1898. 218 pp., pl., 7 x 4, cl.  
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- 37 **PARSONS, W. B., Jr.** Endless-rope haulage: Plan of mechanical transportation proposed for the Blossburg Mine at Arnot, Pa. N. Y., 1882. 15 pp., il., 9 x 6, pap.
- 12 **PENNSYLVANIA—COAL WASTE COMMISSION.** Report of Commission appointed to investigate the waste of coal mining, with the view to the utilizing of the waste. Phil., 1893. 4 + 183 pp., pl., tab., maps, 9 x 6, pap.
- PENNSYLVANIA—GENERAL ASSEMBLY.** Act incorporating the Buck Mountain Coal Co.; and the supplements thereto. Phil., 1839. 32 pp., 9 x 5, b. p. Cfh-29, p. 631.)
- PENNSYLVANIA—GEOLOGICAL SURVEY.** New general map of the anthracite region. 1890. (See Yh-122, AA.)
- 30 **PENNSYLVANIA—JUDICIARY COMMITTEE (SENATE).** Preliminary report on the difficulties in the coal regions: no place, no date. 6 pp., 9 x 6, pap. no title-page.
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- 21 **PHILLIPS, JOHN.** Report on the ventilation of mines and collieries. Lond., 1850. 64 pp., il., pl., 13 x 8, b. p.
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- 6 **ONTARIO SILVER MINING CO.** Annual report; 1876-77. no place, 1877-78. 2 v., 9 x 6, pap.
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- 15 **PROSPECTUS FOR THE ORGANIZATION OF A COMPANY FOR MINING AND smelting of silver ores, on lands located near Thunder Bay, north shore of Lake Superior, Province of Ontario, Canada.** N. Y., 1871. 14 pp., 9 x 6, pap.
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- 8 **RECIPROCITY MINING CO. OF CANADA EAST.** Statement of the property, condition and resources of the company, including the statement of the Trustees, extracts from official reports and correspondence affecting the value of its property. N. Y., 1884. 34 pp., 9 x 6, pap.
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- BIRKINBINE, JOHN.** Production of iron ores in various parts of the world. 1895. (See Yh-40, Annual report, 1894-95, Pt. 3, p. 21.)
- BROOKS, T. B.** Iron ores of the State of Michigan. 1873. (See Yh-28, v. 1, pt. 1.)
- CALDWELL, W. B., Jr.** Notes on the coal and iron ores of Western Kentucky. 1878. (See Yh-69.)
- 2 **CHICAGO & LAKE SUPERIOR IRON MINING AND MANUFACTURING CO.** Report on the Chicago "Iron Mountain" of Lake Superior, in the Upper Peninsula, or Northern Michigan; together with the articles of association, by-laws, and act of incorporation of the company. Chic., 1885. 21 pp., 8 x 6, pap.
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- GILPIN, EDWIN.** Iron ores of Nova Scotia. 1891. (See Yh-56.)
- GLENN, WILLIAM.** Chromic iron with reference to its occurrence in Canada. 1896. (See Yh-40, Annual report, 1895-96, Pt. 3, p. 261.)
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- 1 **RED MOUNTAIN IRON & COAL CO.** Advertisement of the mineral lands of the company, showing their location, geological formation, deposits of coal and iron ore, water power, railroads, soil, climate, and other circumstances. N. Y., 1868. 20 pp., maps, 9 x 6, pap.
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- 8 — Swineford's history of the Lake Superior iron district; its mines and furnaces, containing report for 1870. ed. 2. Marquette, 1871. 98 pp., 9 x 6, pap.
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- UNITED STATES—CENSUS, 10th, 1880.** Report on the mining industries of the United States, exclusive of the precious metals, with special investigations into the iron resources of the Republic and into the cretaceous coals of the Northwest; by Raphael Pumpelly. 1886. (See Qc-10.13.)
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# ROADS AND PAVEMENTS.

## ROADS AND PAVEMENTS—GENERAL.

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- ALBANY, N. Y.—CITY ENGINEER.** Annual reports. (See Oa15-2.1.)
- ALLEGHENY, PA.** Street and sewer laws. 1873. (See Ec-22.)
- ALTOONA, PA.—CITY ENGINEER.** Annual reports. (See Oa25-2.1.)
- 14 **BALTIMORE & FREDERICKTOWN TURNPIKE ROAD CO.,** York & Reisterstown Turnpike Road Co. and Cumberland & Boonsborough Turnpike Road Co. Laws, documents and judicial decisions relating to the companies. Balt., 1841. 93 pp., 8 x 5, cl.
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- BECKER, MAX.** Der Strassen- und Eisenbahnbau in seinem ganzen Umfange und mit besonderer Rücksicht auf die neuesten Constructionen. 1858. (See V-45, v. 3.)
- 106 **BERN, SWITZERLAND—DIRECTION DER ÖFFENTLICHEN BAUTEN.** Statistik eines Theiles der Kantonalen Bauverwaltung. Bern, 1875 (?) 157 pp., 13 x 9, pap.
- 71 **BIRMINGHAM, ENG.—BOROUGH SURVEYOR.** Report upon paving, etc., certain streets and roads in the Borough of Birmingham. Birmingham, 1874. 47 pp., 9 x 6, pap.
- 104 **BOSTON, MASS.—CITY ENGINEER.** Contract and specifications for building a subway on Franklin St., Allston, under B. & A. R. R. Bost., 1894. 22 pp., 10 x 8, pap.
- BOSTON, MASS.—STREET DEPARTMENT.** Annual reports. (See Ob35-6.1.)
- 107 —Contract and specifications for building a bulkhead on L St. Extension, South Boston, Dec., 1890. Bost., 1890. 18 pp., pl., 10 x 8, pap.
- 111 —Contract and specifications for building a bulkhead on L St., South Boston, Aug., 1889. Bost., 1889. 18 pp., pl., 10 x 8, pap.
- 108 —Contract and specifications for building retaining-wall across end of Irvington St. and additions to wall on Yarmouth St. Bost., 1891. 23 pp., pl., 10 x 8, pap.
- 105 —Contract and specifications for building two bulkheads on Commonwealth Ave., west of Cross Roads, June, 1889. Bost., 1889. 18 pp., pl., 10 x 8, pap.
- 100 —Contract and specifications for excavating and removing material from roadway in ——. Bost., 189-. 12 pp., 10 x 8, pap.
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- 102 —Suffolk Co. Court-House: Contract and specifications for curbstone for the City of Boston. Bost., 1889. 9 pp., pl., 10 x 8, pap.
- 113 **BOSTON, MASS.—WATER BOARD.** Three roads in Ashland and Hopkinton: Specifications and contract, Apr., 1890. Bost., 1890. 25 pp., 10 x 8, pap.
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- 86 **BROOKLINE, MASS.—COMMITTEE ON REPAIR OF ROADS.** Report; 1865. Bost., 1865. 1 v., 9 x 6, pap.
- BROOKLYN, N. Y.—DEPARTMENT OF CITY WORKS.** Annual reports. (See Ob45-2.1.)
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- 22 **BYRNE, A. T.** Treatise on highway construction; designed as a text-book and work of reference for all who may be engaged in the location, construction, or maintenance of roads, streets and pavements. ed. 3, rev. and enl. N. Y., 1896. 38 + 771 pp., il., 9 x 6, cl.
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- 10 **CALIFORNIA—LEGISLATURE.** Act to create a Bureau of Highways, and prescribe its duties and powers, and to make an appropriation for its expenses; approved Mar. 27th, 1895. no place, no date. 4 pp., 9 x 6, pap. no title-page.
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- CAMDEN, N. J.—STREET DEPARTMENT.** Annual reports. (See Oc10-2.1.)
- CANTON, O.—CITY CIVIL ENGINEER.** Annual reports. (See Oc15-2.1.)
- 61 **CARSON, W. W.** Grades on country roads. no place, 1900. unpagged, 16 x 8, pap. no title-page.
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- 88 **CINCINNATI, O.—BOARD OF PUBLIC WORKS.** Specifications, etc., for street improvements, Class 2, 4-5. Cin., 187-. 3 v., 14 x 8, pap. no title-page.
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- DEBAUVE, A.** Routes. Note: A general treatise on the construction of roads. 1873. (See V-18, v. 9.)
- DES MOINES, IA.—CITY ENGINEER.** Annual reports. (See Od30-2.1.)
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- DISTRICT OF COLUMBIA—COMMISSIONERS.** Annual reports. (See Od40-2.1.)
- 3 **DISTRICT OF COLUMBIA—ENGINEER COMMISSIONER.** Annual report on the streets and roads of the District of Columbia for the year ending June 30th, 1882. Wash., 1883. 1 v., 9 x 6, pap.
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- DULUTH, MINN.—CITY ENGINEER.** Annual reports. (See Od60-3.1.)
- EAST SAGINAW, MICH.—BOARD OF PUBLIC WORKS.** Annual reports. (See Oe10-2.1.)
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- 96 **FALL RIVER, MASS.—COMMITTEE ON CONSTRUCTION AND REPAIRS OF Highways.** Contract and specifications for streets and roads. no place, 187-. 20 pp., 10 x 8, pap.



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- FITCHBURG, MASS.—CITY ENGINEER.** Annual reports. (See Of25-2.1.)
- 66 **FLORENCE, ITALY.** Lastricati stradali cenni igienici ed economici con particolare riguardo ai lastricati della Città di Firenze. A. Raddi. Firenze, 1894. 37 pp., il., 10 x 6, pap.
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- FRANCE—ECOLE DES PONTS ET CHAUSSEES.** Collection de dessins distribués aux élèves: Routes. 1875. (See Ye-243, v. 1, Ser. 2.)
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- 1 **GELLERAT, E.** Notice sur les compresseurs à vapeur. Paris, no date. 11 pp., pl., 12 x 8, pap. no title-page. manuscript.
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- 18 **GILLESPIE, W. M.** Manual of the principles and practice of road-making; comprising the location, construction, and improvement of roads, common, macadam, paved, plank, etc., and railroads. N. Y., 1849. 372 pp., il., 9 x 6, cl.
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- GRAND RAPIDS, MICH.—BOARD OF PUBLIC WORKS.** Annual reports to the Common Council. (See Og50-3.1.)
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- 11 **GREENE, F. V.** Roads and road-making. N. Y., 1889. pp. 633-636, 649-652, il., por., 17 x 12, pap.
- 93 **HAINS, P. C.** Report of a survey for a national road from the Aqueduct Bridge to Mount Vernon, Va. (51st Cong., 1st Sess. House ex. doc. No. 106.) Wash., 1890. 19 pp., pl., map, 9 x 6, pap.
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- HARRISBURG, PA.—COUNCILS.** Department reports. (See Oh15-2.1.)
- HARTFORD, CONN.—BOARD OF STREET COMMISSIONERS.** Annual reports. (See Oh20-2.1.)
- HAVERHILL, MASS.—CITY ENGINEER.** Annual reports. (See Oh25-2.1.)
- 5 **HERSCHEL, CLEMENS.** Prize essay on roads and road making. Note: Paper assigned the place offered by the Massachusetts State Board of Agriculture for the best treatise on road making. N. Y., 1877. 71 pp., pl., 9 x 6, pap.
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- 67 **HOWARD, J. W.** Advantages of good pavements and attractive streets. no place, no date. 18 pp., il., 9 x 6, pap.
- 59 —Paving problem: Importance, methods, materials, health. no place, no date. 22 pp., 8 x 6, pap.
- INDIANAPOLIS, IND.—DEPARTMENT OF PUBLIC WORKS.** Annual reports of the Board. (See Oi35-2.1.)
- 21 **ITALY—DIREZIONE GENERALE DI PONTI E STRADE.** Relazione sulle costruzioni di strade nazionali e provinciali; 1884. Roma, 1886. 1 v., 14 x 10, pap.
- 20 **ITALY—MINISTERO DEI LAVORI PUBBLICI.** Relazione sulle strade comunali obbligatorie; 7th-14th, 16th-17th; 1875-82, '84-89. Roma, 1877-90. 10 v., 11 x 9, pap.
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- 87 —Specifications, etc., for street improvements. no place, no date. 8 pp., 14 x 8, pap. no title-page.
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- KANSAS CITY, MO.—BOARD OF PUBLIC WORKS.** Annual reports to the Common Council. (See Ok15-5.1.)
- KANSAS CITY, MO.—CITY ENGINEER.** Annual reports. (See Ok15-2.1.)
- 44 **KENTUCKY.** Kentucky highways: History of the old and new systems; by M. H. Crump. U. S.-Office of Road Inquiry. (Bulletin No. 13.) Wash., 1895. 24 pp. 9 x 6, pap.

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- LACONIA, N. H.—STREET DEPARTMENT.** Annual reports of the Street Commissioner. (See O14-2.1.)
- LAFAYETTE, IND.—CITY ENGINEER.** Reports of the Common Council. (See O110-2.1.)
- 13 **LAW, HENRY.** Rudiments of the art of constructing and repairing common roads; to which is prefixed a general survey of the principal metropolitan roads; by S. Hughes. Lond., 1850. 186 pp., il., 7 x 4, cl.
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- 9 **LEAGUE OF AMERICAN WHEELMEN.** Memorial of the Rhode Island Division of the League to the people of Rhode Island on the improvement of highways. Providence, 1899. 18 pp., 9 x 7, pap.
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- 70 **LONDON, ENG.** Our roadways: Remarks addressed to the Commissioners of Sewers, the Metropolitan Board of Works, municipal corporations, members of vestries and local boards; by Viator. Lond., 1876. 31 pp., il., 8 x 5, pap.  
—Report on the application of science and art to street-paving and street-cleansing of the Metropolis. Society of Arts. 1875. (See Sd6-24.3.)
- 85 **LONDON, ENG.—COMMISSIONERS OF SEWERS.** Report on the accidents to horses on carriage-way pavements; by William Haywood. Lond., 1873. 145 pp., map, 8 x 5, pap.  
—Report to the Special Committee upon Improvements, on the traffic and improvements in the public ways of the City of London, by William Haywood, Engineer and Surveyor, to the Commission. Lond., 1863. 112 pp., map, 8 x 5, b. p. Ee-12, p. 13.  
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- LOS ANGELES, CAL.—CITY COUNCIL.** Municipal reports. (See O145-2.1.)
- 27 **LOUISVILLE, KY.—CITY ENGINEER.** Specifications for street repairs for the City of Louisville. Louisville, 1886. 23 pp., 6 x 4, pap.
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- LYNN, MASS.—CITY ENGINEER.** Annual reports. (See O160-2.1.)
- MADRAS—PUBLIC WORKS DEPARTMENT.** Administration report; general, and buildings and roads; 1897-99. 1898-99. (See Ja-82.)
- MALDEN, MASS.—BOARD OF STREET COMMISSIONERS.** Annual reports. (See Om5-2.1.)
- MANCHESTER, ENG.—CITY SURVEYOR.** Plans and sections of water-works extension and improvements of streets. 1862. (See Dc-977.)
- MANCHESTER, N. H.—CITY ENGINEER.** Annual reports. (See Om10-2.1.)
- MARLBOROUGH, MASS.—CITY ENGINEER.** Reports. (See Om15-2.1.)
- 4 **MASSACHUSETTS—BOARD OF AGRICULTURE.** Prize essays on roads and road making. Contents: Science of road making, by Clemens Herschel; Construction and repair of roads, by S. F. Miller; Maintenance and repairs of common roads, by Henry Onion. Bost., 1870. 118 pp., 9 x 6, pap.
- 62 **MEAD, D. W.** Comparative values of various pavements. no place, no date. 10 pp., 9 x 6, pap.
- 84 **MEDFORD, MASS.—STREET COMMISSIONERS.** Annual report; 1891, '93. Bost., 1892-94. 1 v., pl., 9 x 6, pap.
- MEMPHIS, TENN.** Biennial report of the President of Fire and Police Commissioners of the Shelby Co. Taxing District, to the Governor of the State. Note: This district includes the City of Memphis. (See Om25-1.1.)
- 78 **MEMPHIS, TENN.—CITY ENGINEER.** Statements and estimates relating to pavements, sewers, etc., showing details of cost, specifications, and other information of work done. Memphis, 1893. 8 + 101 pp., pl., 9 x 6, pap.
- MEMPHIS, TENN.—FIRE AND POLICE COMMISSIONERS.** Biennial reports to the Governor of the State. (See Om25-1.2.)
- MERIDEN, CONN.—MAYOR.** Message, and Annual reports of the several Departments. (See Om30-2.1.)
- MERRILL, F. J. H.** Road materials and road building in New York. 1897. (See Sa3-169.1, No. 17.)
- 119 **MEXICO—MINISTERIO DE FOMENTO.** Memoria que el Secretario de Estado y del Despacho de Fomento, Colonizacion, Industria y Comercio, presenta al Congreso de la Union, 1865, '73. Mexico, 1865-73. 2 v., pl., maps, 11 x 8, pap.
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- MILWAUKEE, WIS.—BOARD OF PUBLIC WORKS.** Annual reports. (See Om40-4.1.)
- MILWAUKEE, WIS.—CITY ENGINEER.** Annual reports. (See Om40-2.1.)
- MINNEAPOLIS, MINN.—CITY ENGINEER.** Annual reports. (See Om45-3.1.)
- 33 **MINNESOTA GOOD ROADS CONVENTION.** Proceedings of the Minnesota Good Roads Convention held at St. Paul, Minn., Jan. 25th, 1894. U. S.-Office of Road Inquiry. (Bulletin No. 2.) Wash., 1894. 16 pp., 9 x 6, pap.
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- MONTREAL, QUE.—CITY SURVEYOR.** Report on the various works executed by the Road Department. (See Om55-3.1.)
- NASHUA, N. H.—CITY ENGINEER.** Annual reports. (See On5-2.1.)
- 7 **NASHVILLE COMMERCIAL CLUB.** Proposed highway law: A bill prepared by the Highway Reform Committee of the Club, and submitted by order of the Club, to the General Assembly of Tennessee, 1891; being a revision of, and containing the essential features of, the State Road Congress Bill, of Aug., 1890. Nashville, 1891. 23 pp., 9 x 6, pap.
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- NEW HAVEN, CONN.—BOARD OF PUBLIC WORKS.** Annual reports. (See On20-3.1.)
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- 41 **NEW JERSEY.** State aid to road-building in New Jersey; by Edward Burrough. U. S.-Office of Road Inquiry. (Bulletin No. 9.) Wash., 1894. 20 pp., 9 x 6, pap.
- 37 **NEW JERSEY—COMMISSIONER OF PUBLIC ROADS.** Annual report; 4th-6th; 1897-99. Trenton, 1898-99. 3 v., pl., 9 x 6, cl.
- NEW SOUTH WALES—DEPARTMENT OF PUBLIC WORKS.** Report of the Commissioners for Roads, Bridges, and Sewerage. 1893. (See De-115.)
- NEW YORK CITY—CROTON AQUEDUCT DEPARTMENT.** Annual report made to the Common Council; 1852, '59, '61-69. Note: Department includes the Bureau of Pipes, Sewers and Pavements. (See Dc-627.)
- 79 **NEW YORK CITY—DEPARTMENT OF HIGHWAYS.** Annual report; 1st; 1898. N. Y., 1899. 1 v., 9 x 6, cl.
- 12 **NEW YORK CITY—DEPARTMENT OF PUBLIC PARKS.** Contract for grading Third Ave. in the Twenty-third Ward, between One Hundred and Forty-seventh St. and Harlem River. no place, 1875-78. 2 v., 14 x 8, pap.
- 75 —Report of Charles H. Haswell, William E. Worthen and John Bogart, Civil Engineers, who were appointed to examine the condition of the work on Riverside Ave. Improvement and Construction and report in what respect it is done in accordance with the contract, and in what respect it is not so done, together with the testimony taken by them and the minutes of their meetings; also, statement of Thomas Franklin, Superintending Engineer, in reply to said report. (Doc. No. 85.) N. Y., 1879. 108 pp., 9 x 6, pap.
- 76 —Report of the Civil and Topographical Engineer on the condition and extent of works now in progress, under contracts, in the Twenty-third and Twenty-fourth Wards, and as to what action is necessary in regard to the same. (Doc. No. 56.) N. Y., 1874. 6 pp., 9 x 6, pap.
- 89 —Specifications, etc., for grading Third Ave. in the Twenty-third Ward, between One Hundred and Forty-seventh St. and Harlem River. no place, 1875. 15 pp., 14 x 8, pap. no title-page.
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- 80 —Article on street pavements. N. Y., 1891. 43 pp., 9 x 6, cl.
- 26 —Proposals for estimates for regulating and grading 109th St., from Eighth to Manhattan Avenues, and setting curb stones and flagging sidewalks therein. N. Y., 1888. 18 pp., pl., 14 x 9, pap. no title-page.
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- 98 —Specifications, etc., for regulating and grading 112th St., from the west curb line of Sixth Ave., to the east curb line of Seventh Ave., and setting curb stones and flagging sidewalks therein. no place, 1881. 16 pp., 14 x 8, pap. no title-page.
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- NEWARK, N. J.—CITY SURVEYOR.** Reports. (See On30-2.1.)
- NEWPORT, KY.—BOARD OF COUNCILMEN.** Annual reports, submitted to the City Council. (See On35-2.1.)
- NEWTON, MASS.—CITY ENGINEER.** Annual reports. (See On40-2.1.)
- 77 **NORWICH, CONN.—COMMITTEE ON STREETS.** Reports of the Committee on Streets, Street Commissioner, and Board of Sewer Commissioners; 1886-87. Norwich, 1887. 1 v., 9 x 6, pap.
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- OMAHA, NEB.—MAYOR.** Municipal reports. (See Oo20-3.1.)
- 23 **OSWEGO, N. Y.** City roads and pavements suited to Oswego, N. Y. W. P. Judson. Oswego, 1894. 60 pp., pl., 9 x 6, cl.
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- 69 **PAGET, F. A.** Report on the economy of road maintenance and horse-draught through steam road-rolling; with special reference to the Metropolis. ed. 2. Lond., 1870. 6 + 70 pp., tab., 8 x 5, pap.
- 110 **PARIS, FRANCE.** Devis et cahier des charges du marché pour le cylindrage à vapeur des chaussées de la Ville de Paris. Département de la Seine. Paris, 1878. 12 pp., 12 x 8, pap.
- Notes à l'appui du compte des dépenses de l'exercice; 1896-97. Département de la Seine. 1897-98. (See Op5-1.2.)
- Notes de l'Inspecteur Général des Ponts et Chaussées, Directeur des Travaux de Paris, à l'appui du budget de l'exercice; 1878. Département de la Seine. (See Op5-1.1.)
- 19 **PARNELL, SIR HENRY.** Treatise on roads; wherein the principles on which roads should be made are explained and illustrated by the plans, specifications and contracts made use of by Thomas Telford on the Holyhead Road. Lond., 1833. 438 pp., 7 pl., 9 x 6, cl.
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- PEORIA, ILL.—DEPARTMENT OF PUBLIC WORKS.** Annual reports. (See Op20-4.1.)
- 72 **PHILADELPHIA, PA.** Report of the Board of Experts on street paving, to William B. Smith, Mayor. Q. A. Gillmore, F. V. Greene and E. P. North. Phil., 1884. 19 pp., 9 x 6, pap.
- PHILADELPHIA, PA.—BUREAU OF HIGHWAYS.** Annual reports. (See Op25-3.1.)
- PHILADELPHIA, PA.—DEPARTMENT OF HIGHWAYS.** Reports of the Chief Commissioner. (See Op25-5.1.)
- 65 **PHILADELPHIA, PA.—DEPARTMENT OF SURVEYS.** Report of the Chief Engineer and Surveyor to the Councils of Philadelphia, upon the pavements of the city streets. Phil., 1868. pp. 463-482, 9 x 6, pap. no title-page.
- 60 **POPE, A. A.** Highway improvement: An address before the Carriage Builders' National Association, at Syracuse, N. Y., Oct. 17th, 1889. no place, 1889 (?) 18 pp., 8 x 5, pap.
- 24 —Memorial to Congress on the subject of a comprehensive exhibit of roads, their construction and maintenance, at the World's Columbian Exposition. Bost., 1892. 110 pp., 9 x 6, pap.
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- 6 —Movement for better roads: Open letter to the people of the United States; and width of tires, extracts from recent special consular reports on streets and highways in foreign countries. Bost., 1892. 31 pp., 8 x 5, pap.
- 28 —Relation of good streets to the prosperity of a city. no place, no date. 40 pp., 9 x 6, pap.
- 30 —Wagon roads as feeders to railways. Bost., 1892. 23 pp., 9 x 6, pap.
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- QUEBEC, QUE.—CITY ENGINEER.** Reports. (See Oq4-2.1.)
- QUEBEC, QUE.—CITY SURVEYOR AND WATER-WORKS ENGINEER.** Reports. (See Oq4-3.1.)
- RICHMOND, VA.—CITY ENGINEER.** Annual report; 2d; 1875. Richmond, 1875. 1 v., 9 x 6, b. p. De-222, p. 275.
- 16 **ROAD CONSTRUCTION AND MAINTENANCE:** Prize essays. Contents: Road construction and maintenance, by S. C. Thompson; Road construction, by I. F. Pope; Construction of roads, by J. P. Pritchard. Note: Reprinted from *The Engineering Record*. N. Y., 1892. 109 pp., 7 x 6, cl.
- ROADS AND RAILROADS, VEHICLES AND MODES OF TRAVELLING OF** ancient and modern countries; with accounts of bridges, tunnels and canals in various parts of the world. 1839. (See Aj-13.)
- ROCHESTER, N. Y.—EXECUTIVE BOARD.** Annual report of the Board in charge of the Department of Water-Works, Fire, Highway and Street Improvements. (See Or15-2.1.)
- SAGINAW, MICH.—BOARD OF PUBLIC WORKS.** Annual reports to the Common Council. (See Os5-2.1.)
- ST. JOSEPH, MO.—CITY ENGINEER.** Annual reports. (See Os25-2.1.)
- ST. LOUIS, MO.—MAYOR.** Messages, with accompanying reports. (See Os30-3.1.)
- 73 **ST. LOUIS, MO.—STREET COMMISSIONER.** General information, city streets. St. Louis, 1897. 37 pp., il., pl., 6 x 9, pap.
- ST. PAUL, MINN.—BOARD OF PUBLIC WORKS.** Annual reports. (See Os35-3.1.)
- ST. PAUL, MINN.—CITY ENGINEER.** Annual reports. (See Os35-2.1.)
- SALEM, MASS.—CITY COUNCIL.** City documents. (See Os45-2.1.)
- SALT LAKE CITY, UTAH—MAYOR.** Annual message; with the Annual reports of the Officers of Salt Lake City. (See Os50-3.1.)
- SAN DIEGO, CAL.—BOARD OF PUBLIC WORKS.** Annual reports. (See Os53-2.1.)
- SAN FRANCISCO, CAL.—BOARD OF SUPERVISORS.** Municipal reports. (See Os55-2.1.)
- SEATTLE, WASH.—CITY COUNCIL.** Municipal reports. (See Os65-2.1.)
- SEATTLE, WASH.—CITY ENGINEER.** Reports. (See Os65-3.1.)
- SHALER, N. S.** Geology of the road-building stones of Massachusetts, with some consideration of similar materials from other parts of the United States. 1895. (See Yh-40, Annual report, 1894-95, Pt. 2, p. 277.)
- SIMMS, F. W., ed.** Turnpike roads, iron, steel, and gas-works. 1898. (See Ac-202, p. 101.)
- SIMPSON, J. H.** Report on the Union Pacific R. R. and branches, Central Pacific R. R. of California, Northern Pacific R. R., wagon-roads in certain territories, made to the Secretary of the Interior, Nov. 23d, 1865. 1866. (See Ab-121.)
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- 81 **SPALDING, F. P.** Text-book on roads and pavements. N. Y., 1898. 8 + 213 pp., il., pl., 7 x 5, cl.
- 83 **SPRINGFIELD, MASS.—SUPERINTENDENT OF STREETS AND SEWERS.** Annual report of the Superintendent to the City Council; 16th, 21st; 1884, '89. Springfield, 1885-90. 2 v., 9 x 6, pap.
- STATEN ISLAND IMPROVEMENT COMMISSION.** Report of a preliminary scheme of improvements. Note: Includes plan for a new system of highroads for Staten Island. 1871. (See Eb-21.)
- SYDNEY, N. S. W.—CITY SURVEYOR.** Yearly reports. (See Os90-2.1.)
- TACOMA, WASH.—BOARD OF PUBLIC WORKS.** Annual reports. (See Ot5-2.1.)
- 45 **TEXAS GOOD ROADS CONVENTION.** Proceedings of the Convention, held at Turner's Hall, in Houston, Tex., Feb. 19th, 1895. U. S.-Office of Road Inquiry. (Bulletin No. 15.) Wash., 1895. 24 pp., 9 x 6, pap.
- 25 **THAYER, W. W.** Street paving; its cost, character, and construction. no place, no date. 21 pp., 9 x 6, pap.
- THURSTON, R. H.** Paper relating to traction engines and steam road rollers; or, the Past, present and future of steam on the common roads, and based upon the record of trials of Aveling and Porter's road locomotives and rollers, at Orange, N. J., Oct. 1st, 1872. 1873. (See Gc-53.)
- TOLEDO, O.—CITY CIVIL ENGINEER.** Annual reports. (See Ot20-2.1.)
- TOPEKA, KAN.—CITY ENGINEER.** Statement of work done. (See Ot25-2.1.)

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**TORONTO, ONT.—CITY ENGINEER.** Annual reports. (See Ot30-2.1.)

**TROY, N. Y.—CITY ENGINEER.** Reports. (See Ot35-2.1.)

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**UNITED STATES.** Development of transportation systems in the United States. Note: Contains short history of roads. J. L. Ringwalt. 1888. (See Aj-47.)

47 —Historical and technical papers on road building in the United States; compiled under the direction of Roy Stone. Office of Road Inquiry. (Bulletin No. 17.) Wash., 1895. 52 pp., il., 9 x 6, pap.

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**UNITED STATES—CONSULS.** Streets and highways in foreign countries: Reports from the Consuls of the United States, in compliance with a Department circular, on pilotage, light dues, quarantine regulations, etc., in their several districts. 1891. (See Zd-14, Special consular reports, v. 4.)

**UNITED STATES—DEPARTMENT OF AGRICULTURE.** Best roads for farms and farming districts, by Roy Stone. State highways in Massachusetts, by George A. Perkins. Improvement of public roads in North Carolina, by J. A. Holmes. 1895. (See Ne-16.)

**UNITED STATES—HOUSE COMMITTEE ON ROADS AND CANALS.** Report of the Committee to whom were referred sundry memorials, praying that appropriation may be made for the completion of the Cumberland Road; also, a bill and resolutions relative to the same subject, suggesting various methods of accomplishing the desired object. (30th Cong., 1st Sess. House rep. No. 99.) no place, 1848. 47 pp., 9 x 6, b. p. no title-page. Yh-150, p. 407.

31 **UNITED STATES—OFFICE OF EXPERIMENT STATIONS.** Proceedings of a convention of the National League for Good Roads held at Washington, D. C., Jan. 17th and 18th, 1893, and Hearing by the Committee on Agriculture of the House of Representatives, Jan. 19th, 1893. (Department of Agriculture.) (Bulletin No. 14.) Wash., 1893. 101 pp., 9 x 6, pap.

51 **UNITED STATES—OFFICE OF ROAD INQUIRY.** An act to provide for the construction of roads by local assessment, county and state aid. (Department of Agriculture.) (Circular No. 15.) Note: An act passed by the Assembly of the State of New York, was not acted upon by the Senate and failed to become a law. no place, no date. 3 pp., 9 x 6, pap. no title-page.

50 —Addresses on road improvement; by Roy Stone. (Circular No. 14.) no place, 1894 (?) 15 pp., 9 x 6, pap. no title-page.

58 —Going in debt for good roads: Address delivered by Judge Thayer, of Clinton, before the Iowa Bankers' Association. (Circular No. 26.) no place, 1897 (?) 6 pp., 9 x 6, pap. no title-page.

57 —Highway repairing: Practical results of the daily care of common roads. (Circular No. 24.) no place, 1896 (?) 12 pp., 9 x 6, pap. no title-page.

52 —Highway taxation: Comparative results of labor and money systems. (Circular No. 16.) no place, 1894 (?) 5 pp., 9 x 6, pap. no title-page.

38 —Information regarding road materials and transportation rates in certain states west of the Mississippi River; furnished by officials of various railway companies. Wash., 1894. 24 pp., maps, 9 x 6, pap.

40 —Information regarding roads and roadmaking materials in certain eastern and southern states; furnished by officials of the various railway companies. (Bulletin No. 7.) Wash., 1894. 29 pp., maps, 9 x 6, pap.

39 —Information regarding roads, road materials, and freight rates in certain states north of the Ohio River; furnished by officials of various railway companies. (Bulletin No. 6.) Wash., 1894. 30 pp., maps, 9 x 6, pap.

56 —Money value of good roads to farmers. (Circular No. 23.) no place, 1896 (?) 4 pp., 9 x 6, pap. no title-page.

46 —Notes on the employment of convicts in connection with road building; compiled by Roy Stone. (Bulletin No. 16.) Wash., 1895. 15 pp., 9 x 6, pap.

53 —Origin and work of the Darlington Road League. (Circular No. 17.) no place, 1895 (?) 6 pp., il., 9 x 6, pap. no title-page.

32 —State laws relating to the management of roads, enacted in 1888-93; compiled by Roy Stone. (Bulletin No. 1.) Wash., 1894. 95 pp., 9 x 6, pap.

55 —Traffic of the country roads. (Circular No. 19.) no place, 1896 (?) 4 pp., 9 x 6, pap. no title-page.



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- 49 —Traction tests; by Samuel T. Neely. (Bulletin No. 20.) Wash., 1896. 22 pp., il., pl., 9 x 6, pap.
- 43 —Wide tires: Laws of certain states relating to their use, and other pertinent information; compiled by Roy Stone. (Bulletin No. 12.) Wash., 1895. 16 pp., 9 x 6, pap.
- UNITED STATES—SENATE.** Reports and draughts of surveys for the improvement of harbors and rivers, and the construction of roads and canals, with messages and other documents relating to the same; to which are added extracts from the Journals of the Senate and the House. 1839. (See Ca-53.)
- UNITED STATES—TREASURY DEPARTMENT.** Report of the Secretary on the subject of public roads and canals; made in pursuance of a resolution of the Senate of March 2d, 1807. 1808. (See Cfi-12.)
- UTICA, N. Y.—CITY SURVEYOR.** Annual reports. (See Ou8-2.1.)
- 8 **VAN WINKLE, E. B.** Street roadway pavements. no place, no date. 34 pp., 9 x 6, pap. no title-page.
- 35 **VERMONT—HIGHWAY COMMISSION.** Report. Burlington, 1894. 111 pp., il., pl., 9 x 6, pap.
- VIRGINIA—BOARD OF PUBLIC WORKS.** Annual report to the General Assembly; with the accompanying documents; 34th; 1849. Richmond, 1849. 1 v., 9 x 6, b. p. Cfg-1, v. 3, p. 478.
- Same; 35th-37th; 1850-53. (See Ca-50.)
- 42 **VIRGINIA GOOD ROADS CONVENTION.** Proceedings of the Convention, held in Richmond, Va., Oct. 18th, 1894. U. S.-Office of Road Inquiry. (Bulletin No. 11.) Wash., 1895. 62 pp., 9 x 6, pap.
- 54 —Report of Committee on Legislation, adopted by the State Good Roads Convention, held in Richmond, Va., Oct. 10th and 11th, 1895. U. S.-Office of Road Inquiry. (Circular No. 18.) no place, 1895. 6 pp., 9 x 6, pap. no title-page.
- WATERBURY, CONN.—CITY ENGINEER.** Annual reports. (See Ow10-2.1.)
- 63 **WEALE, JOHN, pub.** Rudiments of the art of constructing and repairing common roads, and a general survey of the principal metropolitan roads; together with additional remarks on the maintenance of macadamised roads, by Sir John F. Burgoyne. ed. 3. Lond., 1861-62. 192 pp., 7 x 4, cl.
- WHEELER, J. B.** Location and construction of roads. 1877. (See V-15, p. 410.)
- WICHITA, KAN.—CITY COUNCIL.** Municipal reports. (See Ow25-2.1.)
- WILLIAMSPORT, PA.—MAYOR.** Messages, City Controller's reports, and reports of Departments. (See Ow30-2.1.)
- WILMINGTON, DEL.—DEPARTMENT OF ENGINEERING AND SURVEYING.** Annual reports of the Chief Engineer. (See Ow35-2.1.)
- WILMINGTON, DEL.—STREET AND SEWER DEPARTMENT.** Annual statement of the Board of Directors. (See Ow35-3.1.)
- WISCONSIN.** Reports upon the internal improvements in Wisconsin, including the construction of roads and the surveys of rivers and harbors; together with a map of Wisconsin, and the routes and rivers to be improved delineated thereon. T. J. Cram. no place, 1840. 26 pp., maps, 9 x 5, b. p. Ab-362, p. 547.
- WORCESTER, MASS.—MAYOR.** Inaugural address of the Mayor; with the Annual reports of the several Departments. (See Ow40-2.1.)

## ROADS AND PAVEMENTS—EARTH.

## Nb

- GILLESPIE, W. M.** Earth roads. 1871. (See Na-18a, p. 189.)
- 1 **NICHOLL, T. J.** Improvement of prairie roads and streets. Chic., 1879. pp. 4-14, il., 9 x 6, pap.
- UNITED STATES—DEPARTMENT OF AGRICULTURE.** Best roads for farms and farming, by Roy Stone. State highways in Massachusetts, by George A. Perkins. Improvement of public roads in North Carolina, by J. A. Holmes. 1896. (See Nc-16.)
- 2 **UNITED STATES—OFFICE OF ROAD INQUIRY.** Earth roads; hints on their construction and repair; compiled by Roy Stone. (Department of Agriculture.) (Bulletin No. 8.) Wash., 1894. 20 pp., il., 9 x 6, pap.

## ROADS AND PAVEMENTS—BROKEN STONE.

## Nc

- 14 **ALBANY, N. Y.—BOARD OF COMMISSIONERS OF THE WASHINGTON PARK.** Specifications for telford macadam roadway between Western and Central Avenues, Albany, N. Y. Albany, no date. 3 pp., 14 x 9, pap.
- 6 **ATLANTIC COUNTY, N. J.—BOARD OF CHOSEN FREEHOLDERS.** Specifications for a gravel road from Hammond to Absecon, through Atlantic County, N. J. no place, 1896. unpagcd, 14 x 9, pap. no title-page.

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- 19 **BIRMINGHAM, ENG.—BOROUGH SURVEYOR.** Specifications, etc., for macadam. no place, 1877. 6 pp., 14 x 8, pap. no title-page. manuscript.
- 29 **BOSTON, MASS.—DEPARTMENT OF PARKS.** Contract and specifications for surfacing drives and walks on the Parkway between Tremont and Perkins Streets. Bost., 1893. 22 pp., 10 x 8, pap.
- 23 **BOSTON, MASS.—STREET DEPARTMENT.** Contract and specifications for furnishing stone to the city crushers. Bost., 189-. 12 pp., 10 x 8, pap.
- 22 —Contract and specifications for teaming crushed stone. Bost., 189-. 18 pp., 10 x 8, pap.
- BURGOYNE, SIR J. F.** Remarks on the maintenance of macadamized roads. 1861-62. (See Na-63, p. 159.)
- BURLINGTON, VT.** Report on permanent improvements of streets in the City of Burlington, Vt.; together with a statement by the Advisory Board. W. S. Bacot. 1894. (See Na-74.)
- BYRNE, A. T.** Broken stone pavements. 1892. (See Na-22, p. 195.)
- 3 **CODRINGTON, THOMAS.** Maintenance of macadamized roads. ed. 2, rev. and enl. Lond., 1892. 186 pp., 9 x 6, cl.
- 13 **CORNER, CHARLES.** Country roads. no place, no date. pp. 15-24, 10 x 7, pap. no title-page.
- 26 **ESSEX COUNTY, N. J.—PUBLIC ROAD BOARD.** Report of the Commissioners, Apr., 1873. Newark, 1873. 1 v., 9 x 6, pap.
- 20 **FLUSHING, N. Y.—SUPERVISOR.** Specifications, etc., for macadamizing Flushing and North Hempstead Turnpikes. Flushing, 187-. 7 pp., 14 x 8, pap. no title-page.
- 7 **FORT WAYNE, MICH.** Specifications of the material and labor required in the construction of roads, concrete pavements and walks, gutters, drains, road crossings, wrought-iron fences, gates and other work at Fort Wayne, Mich. no place, no date. 6 pp., 14 x 9, pap. no title-page.
- FRANCE.** Macadamized streets and roads in France. Arthur Beckwith. 1868. (See Ja-104, p. 45.)
- GILLESPIE, W. M.** Broken stone roads. 1871. (See Na-18a, p. 194.)
- 5 **HARRISON COUNTY, O.—ROAD COMMISSIONERS.** Specifications for the construction of the Green Township Free Turnpike. no place, 1896. unpag., 14 x 9, pap. no title-page.
- HERSCHEL, CLEMENS.** Prize essay on roads and road making. 1877. (See Na-5.)
- 1 **HUGHES, THOMAS.** Practice of making and repairing roads, of constructing footpaths, fences, and drains; also, a method of comparing roads, with reference to the power of draught required; with practical observations intended to simplify the mode of estimating earthwork in cuttings and embankments. Lond., 1838. 108 pp., 9 x 6, bds.
- JUDSON, W. P.** Broken stone roads. 1894. (See Na-23, p. 28.)
- 2 **McADAM, J. L.** Remarks on the present system of road making; with observations deduced from practice and experience, with a view to a revision of the existing laws, and the introduction of improvement in the method of making, repairing, and preserving roads, and defending the Road Funds from misapplication; with an appendix and report from the Select Committee of the House of Commons, June, 1823, with extracts from the evidence. ed. 9, rev. Lond., 1827. 236 pp., 9 x 6, bds.
- NEW JERSEY—COMMISSIONER OF PUBLIC ROADS.** Macadam roads in New Jersey. 1898. (See Na-37, Annual report, 1898.)
- 12 **NEW YORK CITY—COMMISSIONERS OF THE CENTRAL PARK.** Roads and walks of Central Park in the City of New York; being a description of their mode of construction, etc.; adapted to general application in making public and private roads and walks; with specifications and estimates, by William H. Grant, Superintending Engineer. ed. 2. no place, 1865. 31 pp., 9 x 6, pap.
- 15 **NEW YORK CITY—DEPARTMENT OF PUBLIC PARKS.** Proposals for estimates for improving and constructing Riverside Ave. between 72d St. and 130th St., in the City of New York. no place, 1876. 33 pp., 14 x 8, pap.  
—Report of Charles H. Haswell, William E. Worthen and John Bogart, Civil Engineers, who were appointed to examine the condition of the work on Riverside Ave. Improvement and Construction and report in what respect it is done in accordance with the contract, and in what respect it is not so done, together with the testimony taken by them and the minutes of their meetings; also, statement of Thomas Franklin, Superintending Engineer, in reply to said report. 1879. (See Na-75.)
- 24 —Specifications, etc., for macadamizing Broadway in the Twenty-fourth Ward, and also building culverts, laying drain pipe, and paving gutters therein, from the road leading to Kingsbridge Station to a point 300 feet north of Van Cortlandt's Lane. no place, 1881. 18 pp., 14 x 8, pap. no title-page.

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- 28 **NEW YORK CITY—DEPARTMENT OF PUBLIC WORKS.** Specifications, etc., for regulating and paving with macadamized pavement. no place, 1878. 18 pp., 14 x 8, pap. no title-page.
- 21 —Same. no place, 1881. 20 pp., 14 x 8, pap. no title-page.
- 30 —Specifications, etc., for regulating and paving with macadamized pavement, Fifth Ave., from the present crosswalk on the northerly side of Ninetieth St., to a line five feet south of, and parallel with, the south curb of 110th St., except where heretofore paved, and paving the gutters and intersections with Belgian or trap-block pavement, and laying crosswalks of blue stone. no place, 1881. 20 pp., 14 x 8, pap. no title-page.
- 10 —Specifications for a macadam pavement on the roadway of Eleventh Ave. from 155th St. to the intersection thereof with the Kingsbridge Road. no place, no date. pp. a-q, 10 x 8, pap. no title-page. manuscript.
- PARNELL, SIR HENRY.** Different modes of constructing roads. 1833. (See Na-19, p. 144.)
- PHILADELPHIA, PA.** Proposed boulevard for Philadelphia and its approximate cost. W. W. Thayer. no date. (See Nh-5.)
- 8 **QUEENS COUNTY, N. Y.—BOARD OF SUPERVISORS.** Proposals and specifications for grading, regulating, and macadamizing the public highway, in the Town of Jamaica, known as Locust Ave. Jamaica, 1892. 20 + 4 + 4 pp., 10 x 8, pap. no title-page.
- 25 **ST. LOUIS, MO.—BOARD OF PUBLIC IMPROVEMENTS.** Specifications for grading, and laying macadamized pavement. no place, no date. 2 v., 15 x 8, pap. no title-page.
- SANTOS, BRAZIL.** Specifications for stone and macadam paving, Santos, Brazil. E. A. Fuertes, Rudolph Hering and J. H. Fuertes. 1894. (See Ec-13, p. 237.)
- SPALDING, F. P.** Broken stone roads. 1898. (See Na-81, p. 88.)
- 27 **SPECIFICATIONS FOR TELFORD PAVEMENT.** no place, no date. 2 pp., 14 x 8, pap. no title-page.
- STRICKLAND, WILLIAM.** Reports on canals, railways, roads, and other subjects; made to the Pennsylvania Society for the Promotion of Internal Improvement. 1826. (See Aj-49.)
- 9 **SUMMIT, N. J.** Proposals for regulating and paving, with macadam pavement, Morris and Springfield Avenues, through the Township of Summit, N. J. Union County-Board of Chosen Freeholders. Rahway, N. J., 189-. 7 + 1 pp., 14 x 9, pap. no title-page.
- 16 **UNITED STATES—DEPARTMENT OF AGRICULTURE.** Best roads for farms and farming districts, by Roy Stone. State highways in Massachusetts, by George A. Perkins. Improvement of public roads in North Carolina, by J. A. Holmes. Wash., 1895. pp. 501-520, il., pl., 9 x 6, pap.
- UNITED STATES—OFFICE OF ROAD INQUIRY.** Information regarding road materials and transportation rates in certain states west of the Mississippi River; furnished by officials of various railway companies. 1894. (See Na-38.)
- Information regarding roads and roadmaking materials in certain eastern and southern states; furnished by officials of the various railway companies. 1894. (See Na-40.)
- Information regarding roads, road materials and freight rates, in certain states north of the Ohio River; furnished by officials of various railway companies. 1894. (See Na-39.)
- 18 —Methods of constructing macadamized roads: Extracts from a report prepared by the Chief Engineering Inspector of the Local Government Board (Great Britain). (Circular No. 21.) no place, 1896 (?) 12 pp., 9 x 6, pap.
- 17 —Report on road-making materials in Arkansas, by John C. Branner. (Bulletin No. 4.) Wash., 1894. 11 pp., 9 x 6, pap.
- VERMONT—HIGHWAY COMMISSION.** Report. 1894. (See Na-35.)
- 11 **WABASH COUNTY, IND.—COMMISSIONERS.** Specifications for the construction of the — road. Note: Prepared by J. W. Shea. Wabash, Ind., 188-. un-paged, 8 x 5, pap.
- 4 **WILMINGTON, DEL.—PARK COMMISSIONERS.** Contract for the construction of the Parkway, and driveways connected therewith. Wilmington, 18—. 19 pp., 14 x 9, pap. no title-page.

## ROADS AND PAVEMENTS—PLANK.

## Nd

- GEDDES, GEORGE.** Observations upon plank roads, together with the general plank road law of the State of New York, as amended by the laws of 1847, 1848, 1849 and 1850. Syracuse, N. Y., 1850. 48 pp., 9 x 5, b. p. Ad-3, p. 859.
- GILLESPIE, W. M.** Plank roads. 1871. (See Na-18a, p. 230.)



Nd—(*Continued*).

**KINGSFORD, WILLIAM.** History, structure, and statistics of plank roads, in the United States and Canada. Phil., 1851. 41 pp., il., 9 x 6, b. p. Ad-3, p. 907.

**NEW YORK STATE—LEGISLATURE.** Act to provide for the incorporation of companies to construct plank roads and of companies to construct turnpike roads. 1850. (See Ad-3, p. 876.)

## ROADS AND PAVEMENTS—MONOLITHIC.

## Ne

- 11 **BARBER ASPHALT PAVING CO.** Genuine Trinidad asphalt: The coming pavement, variously known as the "American," "Grahamite," "Trinidad." ed. 4. no place, no date. unpagcd, 9 x 6, pap.

**BECKWITH, ARTHUR.** Report on asphalt and bitumen, as applied to the construction of streets and sidewalks in Paris, also to terraces, roofs, etc., and to various products in the Exhibition of 1867; with observations upon macadamized streets and roads. (Paris Universal Exposition, 1867.) Wash., 1868. 31 pp., il., pl., 9 x 6, b. p. Ja-104, p. 25.

- 23 **BOSTON, MASS.—STREET DEPARTMENT.** Contract and specifications for repairing asphalt pavements for the City of Boston. Bost., 189-. 16 pp., 10 x 8, pap.

- 6 **BRITTAN, S. B.** The pavement question considered: Scrimshaw's concrete pavement preferred; the respective claims of different pavements examined, their merits and defects freely discussed and exposed. Newark, 1869. 84 pp., 7 x 4, pap.

**BYRNE, A. T.** Asphaltum and coal-tar pavements. 1892. (See Na-22, p. 135.)

- 21 **DISTRICT OF COLUMBIA—ENGINEER COMMISSIONER.** Specifications, etc., for asphaltum pavements. Wash., 1878. unpagcd, 14 x 8, pap. no title-page.

- 9 **GILLMORE, Q. A.** Pavements, stone, asphalt, and wood. N. Y., 1876. newspaper slip.

- 14 **GREENE, F. V.** Asphalt and its uses. no place, 1889. 19 pp., il., 9 x 6, pap.

- 8 **GUTHRIE, EDWIN.** Rock asphalt and concrete in their application to road-making and building. no place, 1874. 12 pp., 8 x 5, pap. no title-page.

- 20 **HOWARD, J. W.** Natural asphaltum and its compounds; their importance, definitions, mineralogy, analyses, uses, history and statistics: A paper. Troy, 1894. 27 pp., 9 x 6, cl.

- 24 **JASSY, ROUMANIA—MAIRE.** Convention pour l'entreprise des travaux de construction et d'entretien des rues et trottoirs de la ville, passée avec W. O. Callender de Londres. Jassi, 1873. 57 pp., 9 x 6, pap.

**JUDSON, W. P.** Asphalt pavements. 1894. (See Na-23, p. 20.)

- 16 **LEVERICH, G.** Treatise on the excelsior pavement and others of bituminous concrete. N. Y., 1871(?) 15 pp., 9 x 6, pap.

**LONDON, ENG.—COMMISSIONERS OF SEWERS.** Report to the Streets Committee on the condition of the wood and asphalt carriage-way pavements in the City of London, as existing on 1st Feb., 1877; by William Haywood. 1877. (See Ni-9.)

—Report upon asphalt and wood pavements; by William Haywood, 17th Mar., 1874. 1874. (See Ni-10.)

- 2 **LOS ANGELES, CAL.—CITY ENGINEER.** Specifications, No. 25, for asphalt street wearing surface. Los Angeles, 1897. 3 pp., 9 x 6, pap. no title-page.

- 10 **LOUISVILLE, KY.—BOARD OF PUBLIC WORKS.** Form of proposal for reconstructing streets with asphalt paving. Louisville, no date. 1 p., 8 x 14, pap.

- 4 —General conditions and specifications governing the reconstruction of streets with asphalt pavement. Louisville, 1896. 27 pp., 7 x 4, pap. no title-page.

- 5 **LOUISVILLE, KY.—CITY ENGINEER.** Specifications for asphalt streets, City of Louisville. Louisville, 1889. 27 pp., pl., 7 x 4, pap. no title-page.

**LOVE, E. G., comp.** Asphalt pavements. 1890. (See Na-15, p. 115.)

- 3 **MCNEILL, J. J.** Advantages of a graded asphalt road from Providence to Boston. Pawtucket, R. I., no date. 7 pp., 11 x 9, pap. manuscript.

- 15 **MALO, LEON.** Remarks on the actual condition of *l'industrie de l'asphalte* and the asphaltic roadways of Paris; tr. by S. D. Winter. St. Louis, 1880. 60 pp., 8 x 5, pap.

- 25 **NEW YORK CITY—CROTON AQUEDUCT DEPARTMENT.** Specifications for street pavements; agreement in duplicate for regulating and paving with the Fisk concrete pavement, under the Hiram Burlew and Fisk patents. no place, no date. 10 pp., 14 x 8, pap.

- 18 **NEW YORK CITY—DEPARTMENT OF PUBLIC PARKS.** Report upon concrete pavements, principally with regard to compositions in which bituminous material is used. (Doc. No. 37.) no place, 1872. 15 pp., pl., 9 x 6, pap.

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- 1 **OMAHA, NEB.—DEPARTMENT OF PUBLIC WORKS.** Proposal, specifications, and contract for sheet asphaltum, brick, and stone paving; approved July 1st, 1897. Omaha, 1897. 22 pp., 14 x 8, pap.
- 26 **PARIS, FRANCE.** Municipal service of works in Paris: Detailed price list and prescribed charges for the construction and maintenance of footpaths and pavements in bitumen and of the areas and roads in compressed asphalt belonging to the municipal service from the 1st Jan., 1872, to the 31st Dec., 1877. Paris, 1872. 45 pp., 12 x 8, pap.
- 27 —Service municipal des travaux de Paris: Devis et cahier des charges de l'entreprise des travaux d'entretien et de construction des trottoirs et dallages en bitume, et des aires et chaussées en asphalte comprimé, dépendant du Service municipal, du 1er janvier, 1878, au 31, décembre, 1882. Paris, 1877. 58 pp., 12 x 8, pap.
- 13 **PAVING QUESTION, ASPHALT PAVEMENTS; SHEET VS. BLOCK.** Wash., 1882. 40 pp., 9 x 5, pap.
- 12 **PHILADELPHIA CITIZENS' MUNICIPAL ASSOCIATION.** Asphalt paving: Reports of experts appointed by special sub-committees of the Association and of the Trades League of Philadelphia to investigate asphaltic materials available for street pavements in Philadelphia. Phil., 1894. 29 pp., 9 x 6, pap.
- SPALDING, F. P.** Asphalt pavements. 1898. (See Na-81, p. 134.)
- 22 **SPECIFICATIONS, ETC., WITH DESCRIPTION, MATERIALS, ETC., OF THE** Scharf asphaltic, the Scrimshaw patent concrete, the Belgian, the improved Belgian, the Miller wood, the Fisk concrete, the improved Nicolson pavements. no place, no date. 20 pp., 14 x 8, pap. no title-page.
- UNITED STATES—CORPS OF ENGINEERS.** Bitumen; its varieties, properties, and uses; compiled from various sources, by H. Wager Halleck. 1841. (See Yh-155.)

## ROADS AND PAVEMENTS—BRICK.

Nf

- 5 **ALBANY, N. Y.—CITY ENGINEER.** Specifications for excavating, filling, forming, curbing, repairing, and completing the sidewalks, and paving, with re-pressed vitrified paving bricks, Central Ave. Albany, 1895. unpagéd, 14 x 9, pap. no title-page.
- 9 **BAKER, I. O.** Durability of brick pavements. Indianapolis, 1891. 46 pp., 8 x 5, pap.
- 11 **BAKER, I. O., and F. A. CALKINS.** Copy of correspondence relative to the discussion of Professor Mead's paper on brick pavements. Chic., 1896. unpagéd, 11 x 8, pap. manuscript.
- 15 **BOSTON, MASS.—DEPARTMENT OF PARKS.** Contract and specifications for laying a brick walk at Charlesbank. Bost., 1891. 20 pp., pl., 10 x 8, pap.
- 17 **BOSTON, MASS.—STREET DEPARTMENT.** Contract and specifications for furnishing paving bricks. Bost., 189-. 10 pp., 10 x 8, pap.
- 4 **BROOKLYN, N. Y.—DEPARTMENT OF CITY WORKS.** Contract and specifications for regulating and paving with vitrified brick pavement, on a concrete foundation, certain carriageways. Brooklyn, 189-. 14 pp., 14 x 9, pap. no title-page.
- BYRNE, A. T.** Brick pavements. 1892. (See Na-22, p. 179.)
- 16 **KUMMER, F. A.** Vitrified brick for street pavements: A description of its manufacture and some notes on its use. Catskill, 1899. 46 pp., 8 x 5, cl.
- 8 **LA PORTE, IND.—COMMON COUNCIL.** Specifications for brick pavement in the City of La Porte. no place, 1894. unpagéd, 9 x 6, pap. no title-page.
- 6 **LOCK HAVEN, PA.—DEPARTMENT OF HIGHWAYS.** Proposals and specifications for paving with vitrified brick on Main St. from the west side of Jay St. to the west side of Mill St. Lock Haven, 1897. unpagéd, 10 x 6, pap. no title-page.
- 14 **LOUISVILLE, KY.—BOARD OF PUBLIC WORKS.** Form of proposal for reconstructing streets with vitrified brick. Louisville, no date. 1 p., 8 x 14, pap.
- 7 —General conditions and specifications governing the reconstruction of streets with vitrified brick or blocks. Louisville, 1895. 26 pp., 7 x 4, pap. no title-page.
- LOVE, E. C., comp.** Brick pavements. 1890. (See Na-15, p. 166.)
- 12 **MARION, IND.—COMMON COUNCIL.** Specification for improvement of West Fourth St. by grading, macadamizing, curbing, and paving the roadway with vitrified street paving brick. Marion, 1890. 5 pp., 14 x 9, pap. no title-page.
- 2 —Specifications for paving Fifth St. with vitrified street paving brick. no place, no date. unpagéd, 14 x 9, pap. no title-page.
- NATIONAL BRICK MANUFACTURERS' ASSOCIATION OF THE UNITED** States of America. Report of the Commission appointed to investigate the subject of paving brick tests and to recommend standard methods for their conduct. 1897. (See Sa3-61.1.)

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- 3 **NEWARK, N. J.—BOARD OF STREET AND WATER COMMISSIONERS.** Contract and specifications for paving with brick on a concrete foundation. Newark, 189-. unpag., 14 x 9, pap. no title-page.
- OMAHA, NEB.—DEPARTMENT OF PUBLIC WORKS.** Proposal, specifications, and contract for sheet asphaltum, brick, and stone paving; approved July 1st, 1897. 1897. (See Ne-1.)
- 10 **RUTTAN, H. N.** Statistics about brick pavements in various cities and places. Winnipeg, Man., 1892. tab., 17 x 13, pap.
- 1 **SIoux CITY, IA—CITY COUNCIL.** Contract and specifications for brick paving and maintenance. Sioux City, 1896. unpag., 14 x 8, pap. no title-page.
- SPALDING, F. P.** Brick pavements. 1898. (See Na-81, p. 119.)
- UNITED STATES.** Vitrified brick pavements; their use in the United States. W. P. Judson. 1894. (See Na-23, p. 44.)
- 13 **UNITED STATES—OFFICE OF ROAD INQUIRY.** Brick paving for country roads. (Circular No. 25.) no place, 1896 (?) 7 pp., il., 9 x 6, pap.

## ROADS AND PAVEMENTS—STONE BLOCK.

## Nh

- 25 **BOSTON, MASS.—STREET DEPARTMENT.** Contract and specifications for furnishing North River flagging. Bost., 189-. 9 pp., 10 x 8, pap.
- 26 —Contract and specifications for large paving-blocks. Bost., 189-. 9 pp., 10 x 8, pap.
- 11 **BROOKLYN, N. Y.—DEPARTMENT OF CITY WORKS.** Contract and specifications for pavements. no place, no date. 7 pp., 13 x 9, pap.
- 6 —Specifications and agreement for grading and paving. no place, no date. 6 pp., 13 x 9, pap. no title-page.
- 17 —Specifications, etc., for—pavement. no place, no date. 10 pp., 14 x 8, pap. no title-page.
- BYRNE, A. T.** Stone pavements. 1892. (See Na-22, p. 79.)
- 9 **DISTRICT OF COLUMBIA—ENGINEER COMMISSIONER.** Specifications for laying block pavement. Wash., 1879. 6 pp., 14 x 8, pap.
- GILLESPIE, W. M.** Paved roads. 1871. (See Na-18a, p. 216.)
- GILLMORE, Q. A.** Pavements, stone, asphalt and wood. 1876. (See Ne-9.)
- 8 **LOUISVILLE, KY.—BOARD OF PUBLIC WORKS.** Form of proposal for reconstructing streets with granite blocks. Louisville, no date. 1 p., 8 x 14, pap.
- 2 —General conditions and specifications governing the reconstruction of streets with granite blocks. Louisville, 1896. 28 pp., 7 x 4, pap. no title-page.
- 3 **LOUISVILLE, KY.—CITY ENGINEER.** Specifications for granite paving blocks, granite flagging and curbing for the City of Louisville. Louisville, 1888. 16 pp., 6 x 4, pap.
- 1 —Specifications for granite streets, City of Louisville. Louisville, 1889. 20 + 5 pp., pl., 6 x 4, pap. no title-page.
- LOVE, E. G., comp.** Stone pavements. 1890. (See Na-15, p. 9.)
- 10 **NEW YORK CITY—CROTON AQUEDUCT BOARD.** Specifications, etc., for regulating and paving with Belgian or square block pavement the Bowery, from Chatham Square to and including Franklin Square. no place, 1857. 8 pp., 14 x 8, pap. no title-page.
- 4 **NEW YORK CITY—DEPARTMENT OF PUBLIC PARKS.** Proposals for regulating and paving with granite-block pavement, the roadway of 132d St., from Fourth to Madison Avenues. N. Y., 1888. 18 pp., 14 x 9, pap. no title-page.
- 15 —Specifications, etc., for regulating and paving, with Belgian or trap-block pavement. no place, 1878. 15 pp., 14 x 8, pap. no title-page.
- 13 —Specifications, etc., for regulating and paving with granite-block pavement. no place, 1878. 15 pp., 14 x 8, pap. no title-page.
- 16 —Specifications, etc., for regulating and paving with granite-block pavement, 108th St., from Third to Fifth Avenues. no place, 1881. 16 pp., 14 x 8, pap. no title-page.
- 14 —Specifications, etc., for regulating and paving with trap-block pavement. no place, 1881. 17 pp., 14 x 8, pap. no title-page.
- 18 —Specifications, etc., for regulating and paving with trap-block pavements, the portion of the roadway in Washington Square, leading from Fifth Ave. to South Fifth Ave. no place, 1876. 11 pp., 14 x 8, pap. no title-page.
- 7 —Specifications for regulating and paving, with Belgian or trap-block pavement, Third Ave. from the northerly side of 163d St. to the northern boundary of the 23d Ward; Nos. 1-2. no place, 1875. 2 v., 14 x 8, pap.



Nh—(*Continued*).

- 12 — Specifications, etc., for regulating and paving, with trap-block pavement, the roadway of 83d St., from the west crosswalk of Eighth Ave. to the pavement heretofore laid at the intersection of the Boulevard, and extending at the several intersecting avenues from a line five feet north of, and parallel with, the north curb of 83d St. to a line five feet south of, and parallel with, the south curb of 83d St., and laying crosswalks. no place, 1881. 16 pp., 14 x 8, pap. no title-page.
- OMAHA, NEB.—DEPARTMENT OF PUBLIC WORKS. Proposal, specifications and contract for sheet asphaltum, brick and stone paving; approved July 1st, 1897. 1897. (See Ne-1.)
- 19 PARIS, FRANCE. Devis et cahier des charges de l'entreprise des travaux d'entretien et de construction des trottoirs et dallages en granit, lave et pavés, et des urinoirs appliqués dépendant du Service municipal des travaux publics de Paris, du 1er janvier, 1878, au 31, décembre, 1882. Département de la Seine. Paris, 1877. 43 pp., 12 x 8, pap.
- 20 — Devis de fournitures de pavés neufs à faire du 1er octobre, 1876, au 31, décembre, 1880, pour les voies publiques de Paris. Département de la Seine. Paris, 1876. 14 pp., 12 x 8, pap.
- 5 PHILADELPHIA, PA. Proposed boulevard for Philadelphia and its approximate cost. W. W. Thayer. no place, no date. 5 + 1 pp., pl., map, 9 x 6, pap.
- SPALDING, F. P. Stone-block pavements. 1898. (See Na-81, p. 168.)
- SPECIFICATIONS, ETC., WITH DESCRIPTION, MATERIALS OF THE Scharf asphaltic, the Scrimshaw patent concrete, the Belgian, the improved Belgian, the Miller wood, the Fisk concrete, the improved Nicolson pavements. no date. (See Ne-22.)

## ROADS AND PAVEMENTS—WOODEN BLOCK.

## Ni

- 2 AUSTRALIA. Wood-paving in Australia; its origin and subsequent development. A. C. Mountain. Melbourne, 1897. 148 pp., il., pl., 8 x 6, pap.
- BYRNE, A. T. Wood pavements. 1892. (See Na-22, p. 104.)
- 1 DETROIT, MICH.—BOARD OF PUBLIC WORKS. Specifications for cedar-block pavement on concrete foundation; adopted Mar. 29th, 1894. Detroit, 1894. unpag., 14 x 9, pap. no title-page.
- 7 DETROIT, MICH.—HEALTH OFFICER. Report to the City Council on the pavement question. no place, no date. 10 pp., 8 x 5, pap. no title-page.
- GILLMORE, Q. A. Pavements, stone, asphalte, and wood. 1876. (See Ne-9.)
- LONDON, ENG. Our roadways: Remarks addressed to the Commissioners of Sewers, the Metropolitan Board of Works, municipal corporations, members of vestries, and local boards; by Viator. 1876. (See Na-70.)
- 9 LONDON, ENG.—COMMISSIONERS OF SEWERS. Report to the Streets Committee on the condition of the wood and asphalte carriageway pavements in the City of London, as existing on 1st Feb., 1877; by William Haywood. Lond., 1877. 7 pp., tab., 8 x 5, pap.
- 10 — Report upon asphalte and wood pavements; by William Haywood, 17th Mar., 1874. Lond., 1874. 50 pp., 8 x 5, pap.
- LOVE, E. G., comp. Wood pavements. 1890. (See Na-15, p. 21.)
- 11 NEW YORK CITY—DEPARTMENT OF PUBLIC WORKS. Contract for regulating and paving, with Hamar wood preserved pavement, the carriageway of Fifth Ave., from 124th to 130th Streets. no place, no date. 11 pp., 14 x 8, pap.
- NEW YORK CITY—STREET COMMITTEE. Report on the expediency of continuing the wooden pavement in Broadway, and the relative merits and expense of wood and macadam paving. N. Y., 1838. pp. 665-785, pl., 9 x 6, b. p. Cfg-2, p. 695.
- NICOLSON, SAMUEL. Nicolson pavement. Bost., 1855. 24 pp., il., 9 x 6, b. p. A-j-1, p. 481.
- 6 NORTHWESTERN STAFFORD PAVEMENT CO. Wooden pavements; their utility in the streets of large cities. no place, 1869. 16 pp., 9 x 6, pap.
- 3 REAM COMBINATION SECTIONAL WOODEN PAVEMENT CO. Prospectus. N. Y., 1870. 18 pp., pl., 9 x 6, pap.
- SPALDING, F. P. Wood pavements. 1898. (See Na-81, p. 151.)
- SPECIFICATIONS, ETC., WITH DESCRIPTION, MATERIALS, ETC., OF THE Scharf asphaltic, the Scrimshaw patent concrete, the Belgian, the improved Belgian, the Miller wood, the Fisk concrete, the improved Nicolson pavements. no date. (See Ne-22.)
- 5 TRUE SYSTEM OF WOOD PAVEMENT. Lond., 1877. 23 pp., il., 8 x 5, pap.
- UNITED STATES. Wood-block pavements; use in the United States. W. P. Judson. 1894. (See Na-23, p. 13.)

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### a15 ALBANY, N. Y.

- 3.1 Board of Contract and Apportionment. Proceedings; 1883-91. Albany, 1885-92. 8 v., 9 x 6, sh.
- 2.1 City Engineer. Annual report; 1891-94, '96-1900. Albany, 1892-1900. 9 v., pl., 9 x 6, pap.

### a20 ALLEGHENY, PA.

- City Engineer. Annual reports of the City Engineer, the Committee on Streets and Sewers, and the Street Commission of the Eastern District; 1875. Allegheny, 1875. 1 v., 9 x 6, b. p. Dec-191, p. 1.
- 2.1 Councils. Annual reports of the various officers and standing committees; 1874, '79. Pittsburg, 1875-80. 2 v., pl., 9 x 6, cl.

### a25 ALTOONA, PA.

- 2.1 City Engineer. Annual report; 1891-92. Altoona, 1892-93. 2 v., tab., 8 x 5, pap.

### a30 ATCHISON, KAN.

- 2.1 Council. Reports of the City Officers; 1888-89. Atchison, 1889-90. 2 v., 9 x 6, pap.

### b5 BALTIMORE, MD.

- 2.1 City Commissioner. Annual report to the Mayor and City Council; 1890-92. Balt., 1891-93. 3 v., tab., 9 x 6, pap.
- 3.1 Mayor. Message to the City Council; 1891-92. Balt., 1891-92. 2 v., 9 x 6, pap.

### b15 BELLEVILLE, ILL.

- 2.1 Revised ordinances of the City of Belleville; together with the general laws of the State of Illinois relating to cities, and special ordinances of the city relating to the issuing of city bonds for various purposes, and the refunding of city debts, and to sewers, street railways, etc.; rev. and comp. by Wilderman & Hamill. Belleville, 1879. 210 pp., 9 x 5, pap.

### b20 BINGHAMTON, N. Y.

- 2.1 City Engineer. Report; 1892, '94. Binghamton, 1893-95. 2 v., tab., 9 x 6, pap.

### b25 BLOOMFIELD, N. J.

- 2.1 Township Committee. Report; Apr., 1893-94. Bloomfield, 1894. 1 v., 8 x 6, pap.

### b30 BLOOMINGTON, ILL.

- 2.1 City Officers. Annual reports; Apr., 1874-81. Bloomington, 1875-81. 7 v., tab., 9 x 6, pap.

### b35 BOSTON, MASS.

- 1.1 Annexation Commission. Report by the Commissioner appointed to investigate the subject of the annexation of certain neighboring cities and towns to the City of Boston. Bost., 1873. 131 pp., 9 x 6, pap.
- 2.1 Auditor of Accounts. Annual report of the receipts and expenditures of the City of Boston and the County of Suffolk, State of Massachusetts; May, 1872-79. Bost., 1873-79. 6 v., 9 x 6, cl.
- 4.1 City Council. Municipal register; containing the City Charter, the rules and orders of the City Council, and a list of officers of the City of Boston; 1873-79. Note: Registers, 1876-78 wanting. Bost., 1873-79. 5 v., pl., 9 x 6, cl.
- 3.1 Engineering Department. Annual report; 1870-93. Bost., 1871-94. 22 v., pl., tab., 9 x 6, pap.
- 7.1 Fire Commission. Report of the Commissioners appointed to investigate the cause and management of the great fire in Boston. Bost., 1873. 24 + 662 pp., 9 x 6, pap.
- 5.1 Fire Department. Annual report; 34th-35th; 1871-72. Bost., 1872-73. 2 v., 9 x 6, cl. —Same; 13th; 1867. 1 v., 9 x 6, b. p. Dec-489, v. 3, p. 331.
- 6.1 Street Department. Annual report; 1892-94. Bost., 1893-95. 3 v., pl., tab., 9 x 6, cl.

\* NOTE.—Reports relating exclusively to one subject have been classed, wherever possible, with that subject.

## O—(Continued).

**b40 BRIDGEPORT, CONN.**

- 2.1 Municipal register; containing a list of city officers and committees, messages of the Mayor, members of the several boards, reports and other public documents; 1886-89. Bridgeport, 1886-89. 4 v., 9 x 6, pap.

**b45 BROOKLYN, N. Y.**

- Act to amend "An act to revise and amend the several acts relating to the City of Brooklyn," passed June 19th, 1851. New York-Legislature. 6 pp., 9 x 6, b. p. no title-page. De-429, p. 515.
- 2.1 Department of City Works. Annual report of the Commissioner; 1872-75, '77-91, '94-95. Brooklyn, 1873-96. 21 v., il., pl., maps, tab., 9 x 6, pap.
- Mayor. Communication to the Common Council; 1851-52. Brooklyn, 1852-53. 2 v., 9 x 6, b. p. De-429, pp. 487, 523.
- Same; 1852-53. 2 v., 9 x 6, b. p. De-434, p. 787.

**b50 BUFFALO, N. Y.**

- 4.1 Bureau of Engineering. Annual report; 2d; 1893. Buffalo, 1894. 1 v., tab., 9 x 6, pap.
- 2.1 City Engineer. Annual report; 1885-86. Buffalo, 1886-87. 2 v., tab., 9 x 6, pap.
- 5.1 —Same; 1874-77, '80-86. Buffalo, 1875-86. 10 v., pl., maps, tab., 9 x 6, b. p.
- 3.1 Common Council. Manual. Buffalo, 1881. 62 pp., 6 x 4, pap.
- 6.1 Department of Public Works. Annual report; 1894-98. Buffalo, 1895-99. 5 v., tab., 9 x 6, pap.
- 5.1 Mayor. Annual message; 1878-80. Buffalo, 1879-80. 2 v., 9 x 6, b. p.

**b55 BURLINGTON, IA.**

- 2.1 Annual reports of the City Officers; Mar., 1874-75, '91-94. Burlington, 1875-94. 4 v., 9 x 6, pap.

**b57 BURLINGTON, VT.**

- 2.1 Annual report of the City Government; 7th-18th; 1871-82. Note: Reports Nos. 10-11, 15 wanting. Burlington, 1872-83. 9 v., 9 x 6, pap.

**b65 BUTTE, MONT.**

- 2.1 City Engineer. Annual report; 1st. Note: Contains a brief summary of the work accomplished in the ten preceding years by the Engineering Department. Butte City, 1890. 1 v., 8 x 6, pap.

**c5 CAMBRIDGE, MASS.**

- 1.1 The Cambridge of eighteen hundred and ninety-six: A picture of the city and its industries fifty years after its incorporation; done by divers hands under the direction of a Committee of the City Government and citizens. Arthur Gilman, ed. Cambridge, 1896. 20 + 424 pp., por., pl., 10 x 6, cl.
- 2.1 City Engineer. Annual report to the City Council; 1873, '85-86, '89-95. Cambridge, 1874-95. 10 v., pl., tab., 9 x 6, pap.
- Same; 1874. 1 v., 9 x 6, b. p. De-187, p. 145.
- 3.1 Mayor. Address at the organization of the City Government and the annual reports made to the City Council; 1867-85. Note: Address and reports, 1868-72 wanting. Cambridge, 1868-86. 14 v., pl., tab., 9 x 6, cl.

**c10 CAMDEN, N. J.**

- 2.1 Street Department. Annual report of the City Surveyor and Supervisor of Streets and Highways; 3d; 1889. Camden, 1890. 1 v., 9 x 6, pap.

**c15 CANTON, OHIO.**

- 2.1 Reports of the City Officials; Mar., 1892-93. Canton, 1893. 1 v., il., por., tab., 10 x 7, pap.

**c25 CHAMBERSBURG, PA.**

- 2.1 Revised edition of acts of Assembly and Borough ordinances, relating to the Borough of Chambersburg, together with a brief history of the town from its foundation to the present time. Chambersburg, 1877. 170 + 10 pp., 9 x 6, pap.

**c30 CHARLESTON, S. C.**

- 3.1 City Council. The centennial of incorporation, 1783-1883. Charleston, 1884. 259 pp., pl., maps, facsim., 10 x 6, cl.
- 2.1 Mayor. Year book; 1886. Charleston, 1886. 1 v., pl., maps, facsim., 9 x 6, cl.

**c35 CHICAGO, ILL.**

- 3.1 Board of Public Works. Annual report to the Common Council; 5th-15th; 1865-75. Note: Report 6th, 1866 wanting. Chic., 1866-76. 10 v., pl., 9 x 6, pap.
- Same; 1st-2d, 5th, 8th; 1861-63, '66, '69. 4 v., 9 x 6, b. p. De-471, p. 175.
- Same; 3d-4th; 1864-65. 2 v., 9 x 6, b. p. De-467, p. 297.
- 2.1 Mayor. Annual message and the Annual report of the Department of Public Works to the City Council; 1st-21st, 23d; 1876-96, '98. Chic., 1877-99. 21 v., il., pl., maps, por., tab., 9 x 6, pap.



**O—(Continued).****c40 CHICOPEE, MASS.**

- 2.1 Annual reports of the Town Officers; 1890. Chicopee, 1891. 1 v., 9 x 6, pap.

**c45 CINCINNATI, OHIO.**

City Civil Engineer. Annual report; 9th; 1866. Cin., 1866. 1 v., 9 x 6, b. p. Dc-465, p. 90.

- 2.1 City Council. Annual reports; 1866. Cin., 1867. 1 v., 9 x 6, cl.

**c50 CLEVELAND, OHIO.**

- 2.1 City Civil Engineer. Annual report; 1890. Cleveland, 1891. 1 v., 9 x 6, pap.

- 3.1 City Council. Reports of the Departments of the government of the city; together with the Annual message of the Mayor; 1865-66, '67-68, '77. Cleveland, 1866-78. 3 v., tab., 9 x 6, pap.

- 4.1 Department of Public Works. Annual report; 1891-92. Cleveland, 1892-93. 2 v., 9 x 6, pap.

Mayor. Address to the City Council, also financial statement; reports of various departments; 1863, '65-66. Cleveland, 1863-66. 3 v., 8 x 5, b. p. Dc-482, p. 8.

**c60 COLUMBUS, OHIO.**

- 2.1 City Civil Engineer. Annual report to the City Council; 1889. Columbus, 1890. 1 v., 9 x 6, pap.

**c65 CONCORD, N. H.**

City Council. Annual report of the receipts and expenditures of the City of Concord; together with other annual reports and papers relating to the affairs of the city; 23d; 1876. Concord, 1876. 1 v., 9 x 6, b. p. Dc-186, p. 267.

- 2.1 City Engineer. Report; 1893. Concord, 1894. 1 v., 9 x 6, pap.

**c70 COVINGTON, KY.**

- 2.1 Fire Department. Annual report; 13th-15th; June, 1876-79. Covington, 1877-79. 3 v., 9 x 6, pap.

**d10 DANVERS, MASS.**

- 2.1 Selectmen. Statement of the accounts of the Town of Danvers; 1877. Danvers, 1878. 1 v., 9 x 6, pap.

**d20 DECATUR, ILL.**

- 2.1 Annual reports of the City Officers; 1877, '79. Decatur, 1878-80. 2 v., 8 x 5, pap.

**d30 DES MOINES, IA.**

- 2.1 City Engineer. Annual report to the City Council; 1st-2d; 1885-86. Des Moines, 1886-87. 2 v., maps, tab., 10 x 7, pap.

**d60 DULUTH, MINN.**

- 3.1 Board of Public Works. Annual report; 1st-11th; 1887-97. Duluth, 1888-98. 11 v., pl., maps, tab., 9 x 6, pap.

- 2.1 Mayor. Annual message; 1898. no place, no date. 1 v., 9 x 6, pap. no title-page.

**e10 EAST SAGINAW, MICH.**

- 2.1 Board of Public Works. Annual report to the Common Council; 1st-5th; 1885-89. East Saginaw, 1886-90. 5 v., tab., 8 x 6, pap.

**e15 EASTON, PA.**

- 2.1 City Engineer. Annual report; 1895. Easton, 1896. 1 v., pl., 9 x 6, pap.

- 3.1 Mayor. Messages, Controller's statement and Department reports; Mar., 1894-95. Easton, 1895. 1 v., 9 x 6, pap.

**e35 ENOSBURGH, VT.**

- 2.1 Annual report of the Officers of the Town of Enosburgh; 1889. Enosburgh Falls, 1890. 1 v., 7 x 5, pap.

**e45 ERIE, PA.**

- 2.1 Councils. Annual reports for the year ending Apr., 1893. Erie, 1893. 1 v., 9 x 6, pap.

**e55 EVERETT, MASS.**

- 2.1 Annual report of the Town Officers; 8th, 10th; 1877, '79. Bost., 1878-80. 2 v., 9 x 6, pap.

**f10 FALL RIVER, MASS.**

- 2.1 Mayor. Inaugural address and reports; 1877. Fall River, 1877. 1 v., 8 x 5, pap. —Same; 1871. 1 v., 9 x 6, b. p. Dc-484, p. 285.

**f25 FITCHBURG, MASS.**

- 2.1 City Engineer. Annual report; 19th-23d, 27th; 1891-95, '99. Fitchburg, 1892-99. 6 v., 9 x 6, pap.

**ai GENERAL.**

Boulnois, H. P. Municipal engineering. (International Cong. of Hygiene and Demography, 7th.) 1891. (See Eg-52, p. 31.)

- 1 Croes, J. J. R. Municipal engineers: Books in current literature that have interest and value for them; reviewed for the *New York Times Saturday Review*. no place, 1899. unpagcd, 9 x 8, pap. newspaper slips.

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- 2 McCullough, Ernest. Public works: A treatise on subjects of interest to municipal officers. Petaluma, 1894. 54 pp., 9 x 6, pap.  
Malézieux, Emil. Les travaux municipaux des États-Unis. 1873. (See Cc-169, p. 458.)

## g25 GLOVERSVILLE, N. Y.

- 2.1 Common Council. Annual reports; 1890-93. Gloversville, 1891-93. 2 v., tab., 9 x 6, pap.  
3.1 Engineering and Street Department. Annual report; 2d-3d, 5th-6th; 1891-92, '94-95. Gloversville, 1892-96. 4 v., pl., tab., 9 x 6, pap.

## g50 GRAND RAPIDS, MICH.

- 3.1 Board of Public Works. Annual Report to the Common Council; Apr., 1877-82, '83-85, '94-95. Grand Rapids, 1878-95. 8 v., 9 x 6, pap.  
3.2 —Rules and regulations made by the Board; amended Apr. 29th, 1875, and amended May 12th, 1877. Grand Rapids, 1877. 14 pp., 6 x 3, pap.  
2.1 City Engineer. Report; 1874-76. no place, 1875-76 (?) 2 v., 9 x 5, pap.  
—Same; 1873-75. 1 v., 9 x 6, b. p. Dec-193, p. 327.

## h5 HALIFAX, N. S.

- 2.1 Annual report of the several departments of the City Government; 1876-79. Halifax, 1878-80. 3 v., pl., 9 x 6, pap.

## h10 HAMILTON, ONT.

- 2.1 Financial statement of the Municipal Corporation; 1876-77. Hamilton, 1877-78. 2 v., 9 x 6, pap.

## h15 HARRISBURG, PA.

- 2.1 Department reports; 1876-89. Harrisburg, 1877-90. 2 v., 9 x 6, pap.

## h20 HARTFORD, CONN.

- 2.1 Board of Street Commissioners. Annual report to the Court of Common Council; 14th-15th, 18th; 1885-86, '89. Hartford, 1886-90. 3 v., 9 x 6, pap.

## h23 HAVANA, CUBA.

- 2.1 Military Governor. Annual report; June, 1898-99. no place, 1899. 1 v., pl., maps, 10 x 6, pap.  
2.2 —Remarks on the industrial, economic and social conditions existing in the Department of Havana; made pursuant to instructions of Aug. 18th, 1899, from the Division Commander; by William Ludlow. Havana, 1899. 19 pp., 10 x 6, pap.

## h25 HAVERHILL, MASS.

- 2.1 City Engineer. Annual report; 2d-9th; 1888-95. Haverhill, 1889-96. 8 v., pl., 9 x 6, pap.

## h35 HINGHAM, MASS.

- 2.1 Selectmen. Report on the financial affairs of the town; 1875. Hingham, 1876. 1 v., 9 x 6, pap.

## h45 HOBOKEN, N. J.

- 2.1 City ordinances now in force, passed by the Mayor and Council of the city from Mar. 28th, 1855, to Jan. 1st, 1872. Hoboken, 1872. 220 pp., 9 x 6, pap.

## h50 HOLYOKE, MASS.

- 2.1 City Engineer. Annual report; 1890-93. Holyoke, 1891-94. 4 v., 9 x 6, pap.

## h60 HYDE PARK, ILL.

- 2.1 Board of Trustees. Annual message of the President and reports of the various officers and heads of departments; Apr., 1882-83. Chic., 1883. 1 v., pl., maps, 9 x 6, mor.

## i35 INDIANAPOLIS, IND.

- 2.1 Department of Public Works. Annual report of the Board; 2d-4th; 1892-94. Indianapolis, 1893-95. 3 v., pl., tab., 9 x 6, pap.

## j5 JACKSONVILLE, ILL.

- 2.1 City Clerk. Report: Statement of the finances; also, the report of Water Commissioners; Mar., 1874-80. Jacksonville, 1875-80. 3 v., 9 x 6, pap.

## j15 JERSEY CITY, N. J.

- 2.1 Board of Public Works. Annual report of Chief Engineer; 1871-75, '77-79, '81. Jersey City, 1872-82. 9 v., pl., phot., maps, tab., 9 x 6, pap.

## k10 KALAMAZOO, MICH.

- 2.1 Board of Trustees. Annual reports of Kalamazoo; Apr., 1874-77, '79-80, '81-82. Kalamazoo, 1876-82. 5 v., tab., 8 x 6, pap.

## k15 KANSAS CITY, MO.

- 5.1 Board of Public Works. Annual report to the Common Council; 1st-5th; 1889-93. Kansas City, 1889-94. 5 v., pl., tab., 9 x 6, pap.

O—(*Continued*).**k15 KANSAS CITY, MO.**—(*Continued*).

- 4.1 City Comptroller. Semi-annual report; together with report of City Engineer, submitted to Mayor and Common Council; 6th, 8th, 12th, 16th; Dec., 1882, '83, '85, '87. Kansas City, 1883-88. 4 v., pl., map, tab., 9 x 6, pap.
- 2.1 City Engineer. Annual report; 1883-84, '86, '88. Kansas City, 1884-89. 4 v., pl., maps, tab., 9 x 6, pap.
- 3.1 Common Council. Charter amendments, adopted Feb. 27th, 1892. Kansas City, 1892. 51 pp., 9 x 6, pap.

**k20 KEENE, N. H.**

- 2.1 City Councils. Annual report of the city; with reports of the several departments; 1st-6th; 1874-79. Keene, 1875-80. 6 v., 9 x 6, pap.

**KEOKUK, IA.**

Mayor. Inaugural address, delivered Apr. 10th, 1855. Keokuk, 1855. 20 pp., 9 x 6, b. p. Ce-382, p. 693.

**14 LACONIA, N. H.**

- 2.1 City Council. Annual report of the receipts and expenditures of the city; 1st; Feb., 1894. Laconia, 1894. 1 v., 9 x 6, cl.
- 3.1 Officers. Annual report; 1892. Laconia, 1893. 1 v., 9 x 6, pap.

**110 LAFAYETTE, IND.**

- 2.1 City Engineer. Reports to the Common Council; 1876. no place, 1877. 1 v., 9 x 6, pap.

**115 LAWRENCE, MASS.**

- 2.1 City Engineer. Annual report; 12th; 1889. Lawrence, 1890. 1 v., 9 x 6, pap.

**120 LENOX, MASS.**

- 2.1 Annual report of officers; 1891. Pittsfield, 1892. 1 v., 9 x 6, pap.

**130 LINCOLN, MASS.**

- 2.1 Report of the officers of the town; Feb., 1877-78. Bost., 1878. 1 v., 9 x 6, pap.

**140 LONDON, ENG.**

- 2.1 Commissioners of Sewers. Report of works executed; by the Engineer and Surveyor to the Commission; 1871-86, '91-94. Lond., 1872-95. 20 v., 8 x 5, pap.  
—Report to the Special Committee upon Improvements, on the traffic and improvements in public ways of the City of London, by William Haywood, Engineer and Surveyor to the Commission. Lond., 1866. 112 pp., map, 8 x 5, b. p. Ee-12, p. 13.
- 3.1 Metropolitan Board of Works. Report; 1864-67, '72. Lond., 1866-73 (?) 4 v., tab., 13 x 9, pap.
- 1.1 Report, with appendix, index and plans; 2d; 1888. Great Britain-Select Committee on Metropolis Improvements. no place, 1888. 1 v., pl., 13 x 9, b. p.

**145 LOS ANGELES, CAL.**

- 2.1 Municipal reports; 1891. Los Angeles, 1892. 1 v., maps, 8 x 6, pap.

**155 LYNCHBURG, VA.**

- 2.2 City Council. Ordinances of the City of Lynchburg, adopted 29th June, 1872; and amended City Charter, approved 6th Mar., 1872. Lynchburg, 1873. 207 pp., 9 x 6, pap.
- 2.1 —Reports of the Standing Committees of the Council; July, 1875-76. Lynchburg, 1876. 1 v., 9 x 6, pap.

**160 LYNN, MASS.**

- 2.1 City Engineer. Annual report; 1888-95. Lynn, 1889-96. 8 v., map, tab., 9 x 6, pap.

**m5 MALDEN, MASS.**

- 2.1 Board of Street Commissioners. Reports; 1893. Bost., 1894. 1 v., pl., 9 x 6, pap.

**m10 MANCHESTER, N. H.**

- 2.1 City Engineer. Annual report; 1886, '88-89, '95. Manchester, 1887-96. 4 v., tab., 9 x 6, pap.

**m15 MARLBOROUGH, MASS.**

- 2.1 City Engineer. Report; 1892. Marlborough, 1893. 1 v., 9 x 6, pap.

**m25 MEMPHIS, TENN.**

- 1.1 Biennial report of the President of Fire and Police Commissioners to the Governor of the State; 1879-88, Shelby County, Tenn.-Taxing District. Memphis, 1881-89. 4 v., tab., 9 x 6, pap.
- 1.2 Fire and Police Commissioners. Biennial report to the Governor of the State; 1891-92. Memphis, 1893. 1 v., 9 x 6, pap.

**m30 MERIDEN, CONN.**

- 2.1 Mayor. Message, and annual reports of the several departments; 1878-79. Meriden, 1878-79. 2 v., 9 x 6, pap.



## O—(Continued).

**m35 MIDDLETOWN, CONN.**

- 2.1 Mayor. Annual message and reports of the several departments of the city; 1876, '80. Middletown, 1877-81. 2 v., 9 x 6, pap.

**m40 MILWAUKEE, WIS.**

- 4.1 Board of Public Works. Annual report; 1875-78, '82-90, '94-98. Milwaukee, 1876-99. 18 v., pl., maps, tab., 9 x 6, pap.
- 2.1 City Engineer. Report; 1893. Milwaukee, 1894. 1 v., pl., tab., 9 x 6, pap.
- 3.1 Comptroller. Annual report; 1879, '81. Note: Contains Department reports of the city. Milwaukee, 1880-82. 2 v., pl., tab., 9 x 6, pap.

**m45 MINNEAPOLIS, MINN.**

- 2.1 City Council. Annual reports; Apr., 1878-80. Minneapolis, 1879-89. 2 v., tab., 9 x 6, pap.
- 3.1 City Engineer. Annual report; 1891-99. Minneapolis, 1892-1900. 9 v., pl., maps, tab., 9 x 6, pap.

**m55 MONTREAL, QUE.**

- 2.1 City Council. Reports on the corporation accounts; reports of the Chiefs of departments; 1872-97. Montreal, 1873-99. 26 v., pl., phot., tab., 9 x 6, mor.
- 3.1 City Surveyor. Report on the various works executed by the Road Department; 1860-95. Note: Reports, 1861-62, '67, '69-70, '72-82 wanting. Montreal, 1861-96. 20 v., pl., tab., 9 x 6, pap.

**n5 NASHUA, N. H.**

- 2.1 City Engineer. Annual report; 1891. Nashua, 1891. 1 v., 9 x 6, pap.

**n10 NASHVILLE, TENN.**

- 2.1 Annual reports of the Treasurer and Recorder, Chief of Fire Department and other officers; 1877. Nashville, 1877. 1 v., 9 x 6, pap.

**n15 NEW BEDFORD, MASS.**

- 4.1 Board of Public Works. Annual report to the City Council; 4th-6th; together with the Superintendent's report to the Board; 1892-94. New Bedford, 1893-95. 3 v., tab., 9 x 6, pap.
- 2.1 Engineering Department. Annual report to the City Council, by the City Land Surveyor; 2d; 1894. New Bedford, 1895. 1 v., map, 9 x 6, pap.
- 3.1 Mayor. Address to the City Council; City Government; and Reports of Committees; 1861-62. New Bedford, 1862. 1 v., 9 x 6, pap.

**n20 NEW HAVEN, CONN.**

- 3.1 Board of Public Works. Annual reports of the Department; 1882-90. New Haven, 1883-91. 9 v., 9 x 6, pap.
- 2.1 Common Council. Annual book; containing lists of the officers of the city government, messages of the Mayor, reports and other public documents; 1871-74, '75-81. New Haven, 1872-82. 8 v., pl., maps, tab., 9 x 6, cl.

**n25 NEW YORK, N. Y.**

- 2.1 Common Council. Laws of the City of New York, passed by the Board of Aldermen, approved by the Mayor, June 26th, 1834-Sept. 30th, 1835. no place, no date. unpagd, 9 x 5, bds. no title-page.
- 2.2 —Manual of the Corporation of the City of New York; 1861, '65. N. Y., 1861-65. 2 v., il., por., pl., maps, facsim., 7 x 5, cl.
- 3.1 Comptroller. Communication, transmitting report of the Auditor of Accounts, being detail of warrants drawn on the City Chamberlain for the quarter ending Dec. 31st, 1878. N. Y., 1879. 316 pp., 9 x 6, pap.
- 3.2 —Report; with a statement of receipts and expenditures from Jan. 1st to May 8th, 1843, and of the receipts and investments of the Commissioners of the Sinking Fund, during the same time. N. Y., 1843. pp. 1349-1375, 9 x 5, pap.
- 8.1 Department of Public Works. Annual report; Apr., 1871-73; '78-79, '81, '83-84, '86-94. N. Y., 1872-95. 16 v., maps, 9 x 6, cl.
- 8.2 —Report for the quarter ending Dec. 31st, 1876; Mar. 31st, June 30th, Sept. 30th, Dec. 31st, 1877; Mar. 31st, June 30th, Sept. 30th, Dec. 31st, 1880; Mar. 31st, June 30th, Sept. 30th, Dec. 31st, 1882; Mar. 31st, June 30th, Sept. 30th, Dec. 31st, 1885; Mar. 31st, 1895. N. Y., 1877-95. 18 v., 9 x 6, pap.
- 4.3 Fire Department. Proposed sea water fire pipe line for the City of New York: Reports of Chief of Department Hugh Bonner and Consulting Engineer Foster Crowell, to the Board of Fire Commissioners, 1897. no place, no date. 27 pp., 9 x 6, pap.
- 4.2 —Report; 1879-82. N. Y., 1880-83. 4 v., tab., 9 x 6, pap.
- 4.1 —Report of Inspector of Buildings; 1882-83. N. Y., 1883-84. 2 v., 9 x 6, pap.
- 5.2 Mayor. Communication transmitted to the Common Council of New York; 1869. N. Y., 1869. 1 v., 9 x 6, pap.
- 5.1 —Message to the Common Council, with accompanying documents; 1871. no place, 1871. 1 v., 9 x 6, pap.

## O—(Continued).

**n25 NEW YORK, N. Y.—(Continued).**

- 6.1 Metropolitan Fire Department. Annual reports of the Board of Commissioners; 1865-66. N. Y., 1867. 1 v., pl., 9 x 6, cl.
- 7.1 Municipal Civil Service. Annual report of the Supervisory Board of Commissioners; 2d. N. Y., 1886. 1 v., 9 x 6, pap.
- 1.15 Public Baths and Public Comfort Stations Committee. Report by the Mayor's Committee. N. Y., 1897. 195 + 9 pp., pl., 10 x 6, cl.

**n30 NEWARK, N. J.**

- 2.1 City Surveyor. Report; 1886-90. Note: Report, 1887 wanting. Newark, 1887-91. 2 v., pl., tab., 9 x 6, pap.
- 3.1 Mayor. Message, and accompanying documents; 1860. Newark, 1861. 1 v., 9 x 6, pap.
- 1.1 Records of the Town of Newark, New Jersey, from its settlement in 1666, to its incorporation as a city in 1836. New Jersey Historical Society, comp. Newark, 1864. 10 + 294 pp., map, 9 x 6, cl.

**n35 NEWPORT, KY.**

- 2.1 Annual reports, submitted to the City Council; 1871-73, '75-79. Cin., 1871-80. 8 v., pl., 9 x 6, pap.

**n40 NEWTON, MASS.**

- 2.1 City Engineer. Annual report; 1883-99. Bost., 1884-1900. 17 v., pl., maps, 9 x 6, pap.

**n45 NORFOLK, VA.**

- 2.1 Mayor. Message to the Select and Common Councils; together with municipal reports; 1876-77, '81-83. Norfolk, 1877-83. 4 v., 9 x 5, pap.
- Same; 1872, '74-75. Norfolk, 1873-76. 3 v., 8 x 5, b. p. De-980, p. 1.

**n50 NORTH ADAMS, MASS.**

- 2.1 Fire District. Annual report of the Prudential Committee; 8th, 10th-11th; 1876, '78-79. North Adams, 1877-80. 3 v., 9 x 6, pap.

**n55 NORTHAMPTON, MASS.**

- 2.1 Annual reports of Officers; 1889-90. Florence, 1890-91. 2 v., 9 x 6, pap.

**o10 OGDENSBURG, N. Y.**

- 2.1 Mayor. Annual report: Report of Treasurer, Water Commissioners, Street and Park Commissioners, Chief Engineer, Chief of Police, Board of Health and Board of Education; 1871-72, '74-77, '79-80, '88-89. Ogdensburg, 1872-89. 7 v., 9 x 6, pap.

**o20 OMAHA, NEB.**

- 2.1 City Engineer. Annual report; 1884-86, '90-94. Omaha, 1885-95. 8 v., pl., maps, tab., 9 x 6, pap.
- 3.1 Mayor. Municipal reports; 1888. Omaha, 1889. 1 v., tab., 9 x 6, mor.

**o30 OTTAWA, ONT.**

- 2.1 Auditor. Report; 1875. Ottawa, 1876. 1 v., 9 x 6, pap.
- 3.1 Corporation. Assessment roll of By Ward; 1876. Ottawa, 1876. 1 v., 9 x 6, pap.
- 3.2 —Assessment roll of Wellington Ward; 1876. Ottawa, 1876. 1 v., 9 x 6, pap.

**p5 PARIS, FRANCE.**

- 1.2 Notes à l'appui du compte des dépenses de l'exercice; 1896-97. Département de la Seine. (Direction administrative de la voie publique, des eaux et des égouts.) Paris, 1897-98. 2 v., 11 x 8, pap.
- 1.1 Notes de l'Inspecteur Général des Ponts et Chaussées, Directeur des travaux de Paris à l'appui du budget de l'exercice; 1878. Département de la Seine. Paris, 1878. 1 v., 10 x 8, pap.

**p10 PASSAIC, N. J.**

- 2.1 Mayor. Annual message; 1891-93. Passaic, 1891-93. 3 v., pl., tab., 9 x 6, pap.

**p15 PATERSON, N. J.**

- 2.1 City Officers. Annual reports; 1877-78. Paterson, 1878-79. 2 v., tab., 9 x 6, pap.

**p20 PEORIA, ILL.**

- 2.1 City Clerk. Statement of the finances; together with Treasurer's account; 1871-72, '74-79. Peoria, 1872-80. 8 v., 8 x 6, pap.
- 3.1 City Comptroller. Statement of the finances, together with reports of the various departments; 1892-93. Peoria, 1893-94. 2 v., 9 x 6, pap.
- 4.1 Department of Public Works. Annual report; 1894. Peoria, 1895. 1 v., tab., 9 x 6, pap.

**p25 PHILADELPHIA, PA.**

- 3.1 Bureau of Highways. Annual report; 1888-92. Note: Report, 1889 wanting. Phil., 1889-93. 4 v., tab., 9 x 6, pap.
- 7.1 Bureau of Surveys. Annual report; 1887-99. Note: Report, 1897 wanting. Phil., 1888-1900. 12 v., pl., tab., 9 x 6, cl.

O—(*Continued*).**p25 PHILADELPHIA, PA.**—(*Continued*).

- 5.1 Department of Highways. Report of the Chief Commissioner; 1883. Phil., 1884. 1 v., 9 x 6, pap.
- 8.1 Department of Surveys. Annual report of the Chief Engineer and Surveyor; 1866, '73-74, '83-86. Phil., 1867-87. 7 v., 9 x 6, pap.
- 6.1 Mayor. Annual message; with annual reports of the Departments; 1893-99. Phil., 1894-1900. 27 v., pl., maps, tab., 9 x 6, mor.

**p28 PITTSBURG, PA.**

- 1.1 Notas interesantes acerca de Pittsburg. Pittsburg Chamber of Commerce. Pittsburg, 1889. unpag., pl., 14 x 11, cl.

**p30 PITTSFIELD, MASS.**

- 2.1 Reports of the Water Commissioners, Prudential Committee and Commissioners of Main Drains, etc.; Apr., 1869-75, '77-79. Pittsfield, 1869-79. 10 v., 9 x 6, pap. —Same; 1876. 1 v., 9 x 6, b. p. Dc-190, p. 417.

**p35 PLYMOUTH, MASS.**

- 2.1 Town Officers. Annual report; 1876-78. Plymouth, 1877-79. 3 v., 9 x 6, pap.

**p40 PORT HURON, MICH.**

- 2.1 Board of Public Works. Charter; also, the by-laws, rules and regulations and tariff of water rates adopted by the Commissioners. Port Huron, 1873. 31 pp., 9 x 6, pap.

**p45 PORTLAND, ME.**

- 2.1 Auditor. Annual report of the receipts and expenditures; 17th; with the Mayor's address and annual reports of the several departments, made to the City Council; 1875. Portland, 1876. 1 v., 9 x 6, cl.
- 3.1 City Engineer. Annual report; 1890-1894. Portland, 1891-94. 4 v., 9 x 6, pap.
- 4.1 Mayor. Address at the organization of the City Government, for the municipal year 1885-86. Portland, 1885. 1 v., 9 x 6, pap.

**p50 POUGHKEEPSIE, N. Y.**

- 2.1 Common Council. Annual reports of the several departments of the City Government; 1878. Poughkeepsie, 1879. 1 v., tab., 9 x 6, pap.

**p55 PROVIDENCE, R. I.**

- 3.1 Board of Public Works. Quarterly report; 3d, 5th, 7th, 15th-18th, 33d, 37th; Sept., 1883, Mar., '84, Sept., '84, Sept., '86-June, '87, Mar., '91, Mar., '92. Providence, 1883-92. 9 v., tab., 9 x 6, pap.
- 2.1 City Engineer. Annual report; 1872-74, '77-99. Providence, 1873-1900. 26 v., pl., maps, tab., 9 x 6, pap.

**q4 QUEBEC, QUE.**

- 2.1 City Engineer. Report; 1892-94. Quebec, 1894. 1 v., tab., 8 x 6, pap.
- 3.1 City Surveyor and Water-Works Engineer. Report; Apr., 1872-73. Quebec, 1873. 1 v., 9 x 5,  $\frac{1}{2}$  skiv.
- 1.1 Municipal engineering statistics. Quebec, 1896. 23 pp., tab., 9 x 6, pap.

**q9 QUINCY, ILL.**

- 2.1 Mayor. Message; together with the reports of City Officers; Mar., 1873-79. Note: Message and reports, Mar., 1874-75, '77-78 wanting. Quincy, 1874-79. 4 v., il., 9 x 6, pap.

**r5 READING, PA.**

- 2.1 Municipal reports; 1877, '87. Reading, 1878-88. 2 v., maps, 9 x 6, pap.

**RICHMOND, VA.**

- City Engineer. Annual report; 2d; 1875. Richmond, 1875. 1 v., 9 x 6, b. p. Dc-222, p. 275.

**r15 ROCHESTER, N. Y.**

- 2.1 Executive Board. Annual report of the Board, in charge of the Departments of Water-Works, Fire, Highway and Street Improvements; 1st-23d; 1876-98. Note: Reports Nos. 9, 12-13 wanting. Rochester, 1877-98. 19 v., pl., maps, tab., 9 x 6, pap.

**r20 ROCKFORD, ILL.**

- 2.1 City Clerk. Financial statement; 1875. Rockford, 1876. 1 v., 9 x 6, pap.
- 3.1 Common Council. Annual reports of the City Officers; May, 1879-80. Rockford, 1880. 1 v., 8 x 6, pap.

**r25 ROCKLAND, ME.**

- [2.1 Common Council. Annual report of the City of Rockland, containing the Mayor's address and annual statements of the several departments; 36th-39th, 44th; Feb., 1889-93, '97-98. Rockland, 1890-98. 5 v., 9 x 6, pap.

**s5 SAGINAW, MICH.**

- 2.1 Board of Public Works. Annual report to the Common Council; 1st-3d; 1890-92. Saginaw, 1891-93. 3 v., pl., tab., 9 x 6, pap.



O—(*Continued*).**s15 ST. ALBANS, VT.**

- 2.1 Annual report of the Town Officers; 1881, '83-92. St. Albans, 1882-92. 10 v., 9 x 6, pap.

**s20 ST. JOHNSBURY, VT.**

- 2.1 Reports of the Trustees, Chief Engineer of the Fire Department, Superintendent of Water-Works, and the Treasurer; 1878-79. St. Johnsbury, 1878-79. 2 v., 8 x 5, pap.

**s25 ST. JOSEPH, MO.**

- 2.1 City Engineer. Annual report; Apr., 1888-89. St. Joseph, 1889. 1 v., pl., 9 x 6, pap.

**s30 ST. LOUIS, MO.**

- History of St. Louis, commercial statistics, improvements of the year, and account of leading manufactories, etc. St. Louis, 1854. 67 pp., map, 9 x 6, b. p. Aj-1, p. 231.

- 3.1 Mayor. Message, with accompanying reports of City Officers, submitted to the Common Council; Oct., 1859, May, Oct., '60, Oct., '61, May, Oct., '62, May, Oct., '63, May, Oct., '64, May, '65, Oct., '67, May, '70, Nov., '75, '78-80. St. Louis, 1859-80. 17 v., pl., tab., 9 x 6, pap.

**s35 ST. PAUL, MINN.**

- 3.1 Board of Public Works. Annual report; 1886-87. St. Paul, 1887-88. 2 v., pl., maps, 9 x 6, pap.

- 2.1 City Engineer. Annual report; 1888-94. Note: Reports, 1890, '92 wanting. St. Paul, 1889-95. 5 v., pl., maps, 9 x 6, pap.

**s45 SALEM, MASS.**

City Council. Annual reports of the several departments, committees, etc.; 1867-70. Salem, 1869-71. 3 v., 9 x 6, b. p. Dc-510, pp. 27, 427, 655.

—Same; 1865-67. 3 v., 9 x 6, b. p. Dc-511, pp. 141, 287, 473.

- 2.1 —City documents; 1871-73. Salem, 1872-74. 3 v., 9 x 6, pap.

—Municipal register; containing a list of the government and officers of the City of Salem for 1870; and an historical list of members of the City Council from 1836 to 1870. Salem, 1870. 32 pp., 9 x 6, b. p. Dc-510, p. 595.

Joint Standing Committee on Accounts. Annual report of the receipts and expenditures of the City of Salem; 1866-67. Salem, 1867-68. 2 v., 9 x 6, b. p. Dc-511, p. 361.

—Same; 1867-68. 2 v., 9 x 6, b. p. Dc-509, pp. 117, 445.

—Same; 1868-70. 3 v., 9 x 6, b. p. Dc-510, pp. 117, 539, 767.

Mayor. Inaugural address to the City Council; 1865-68. Salem, 1865-68. 4 v., 9 x 6, b. p. Dc-511, pp. 37, 113, 445.

—Same; 1868-69. 2 v., 9 x 6, b. p. Dc-509, pp. 1, 331.

—Same; 1869-71. 3 v., 9 x 6, b. p. Dc-510, p. 1.

—Valedictory address to the City Council; 1870. Salem, 1870. 1 v., 9 x 6, b. p. Dc-510, p. 403.

**s50 SALT LAKE CITY, UTAH.**

- 2.1 Fire Department. Annual report of the Chief Engineer; 1879. Salt Lake City, 1880. 1 v., 9 x 6, pap.

- 3.1 Mayor. Annual message; with the annual reports of the Officers; 1890. Salt Lake City, 1891. 1 v., 9 x 6, pap.

**s53 SAN DIEGO, CAL.**

- 2.1 Board of Public Works. Annual report; 1890. San Diego, 1891. 1 v., 9 x 6, pap.

**s55 SAN FRANCISCO, CAL.**

- 2.1 Board of Supervisors. Municipal reports; June, 1875-98. San Fran., 1876-98. 23 v., pl., por., phot., maps, 9 x 6, mor.

**s58 SARATOGA SPRINGS, N. Y.**

- 1.1 Charter and by-laws of the village; together with the Water Law and By-laws. Saratoga Springs, 1872. 74 pp., 9 x 6, pap.

**s60 SAUGUS, MASS.**

- 2.1 Auditors. Annual report of the receipts and expenditures of the Town of Saugus; 1878. Lynn, 1879. 1 v., 9 x 6, pap.

**s65 SEATTLE, WASH.**

- 2.1 City Council. Municipal reports; 1891. Seattle, 1892. 1 v., maps, tab., 9 x 6, sh.

- 3.1 City Engineer. Report; 1892. Seattle, 1893. 1 v., pl., tab., 8 x 6, pap.

**s70 SHANGHAI, CHINA.**

- 2.1 Municipal Council. Report; 1895-97, '99 and budget; 1896-98, 1900. Shanghai, 1896-1900. 4 v., 9 x 5, pap.

**O—(Continued).****s75 SOMERVILLE, MASS.**

- 2.1 City Council. Annual reports; 1857-89. Note: Reports, 1861, '63, '66-70, '72-73 wanting. Bost., 1858-90. 24 v., maps, tab., 9 x 6, pap.
- 3.1 City Engineer. Annual report; 17th-18th; 1890-91. Somerville, 1891-92. 2 v., 9 x 6, pap.

**s80 SPRINGFIELD, MASS.**

- 2.1 City Engineer. Annual report; 1891. Springfield, 1892. 1 v., 9 x 6, pap.

**s85 SUPERIOR, WIS.**

- 2.1 Board of Public Works. Annual report; 1892. Superior, 1893. 1 v., tab., 9 x 6, pap.

**s88 SURBITON, ENG.**

- 2.1 Surveyor. Annual report, accounts and balance sheet; 1898-99. Surbiton, 1899. 1 v., 8 x 5, pap.

**s90 SYDNEY, N. S. W.**

- 2.1 City Surveyor. Yearly report; 1887-88. Sydney, 1888-89. 2 v., pl., 13 x 8, pap.

**s95 SYRACUSE, N. Y.**

- 2.1 Board of City Auditors. Proceedings; 1883-84. Syracuse, 1884-85. 2 v., 9 x 6, pap.
- 3.1 Common Council. Proceedings and reports of the City Officers; 1889. Syracuse, 1890. 1 v., 9 x 6, cl.
- 4.1 Mayor. Inaugural addresses and reports of Departments; 1877-78. Syracuse, 1878. 1 v., 9 x 5, pap.

**t5 TACOMA, WASH.**

- 2.1 Board of Public Works. Annual report; 1st; 1891. Tacoma, 1891. 1 v., pl., 9 x 6, pap.

**t20 TOLEDO, OHIO.**

- 2.1 City Civil Engineer. Annual report; 1886, '88. Toledo, 1887-89. 2 v., 9 x 6, pap.

**t25 TOPEKA, KAN.**

- 2.1 City Engineer. Statement of work done; 1889-91. no place, 1892. 1 p., 11 x 8, pap.

**t30 TORONTO, ONT.**

- 2.1 City Engineer. Annual report; 1882-98. Toronto, 1882-99. 15 v., pl., maps, tab., 9 x 6, pap.

**t35 TROY, N. Y.**

- 2.1 City Engineer. Report; Feb., 1893-94. Troy, 1895. 1 v., pl., maps, tab., 9 x 6, ro.
- 3.1 Public Improvement Commission. Annual report; 2d; 1891. Troy, 1892. 1 v., maps, tab., 9 x 6, pap.

**t40 TRURO, N. S.**

- 2.1 Laws and ordinances relating to the Town of Truro, Nova Scotia. ed. 2. Truro, 1879. 83 pp., 8 x 6, pap.

**u8 UTICA, N. Y.**

- 2.1 City Surveyor. Annual report; Feb., 1887. Utica, 1888. 1 v., pl., 9 x 6, cl.

**v5 VERGENNES, VT.**

- 2.1 Annual report of the Auditors, Common Council and other officers of the city; Mar., 1878. Vergennes, 1879. 1 v., 9 x 6, pap.

**w5 WALTHAM, MASS.**

- 2.1 Annual reports of the several Boards of Town Officers; 1875. Waltham, 1876. 1 v., 9 x 6, pap.

**d40 WASHINGTON, D. C.**

- 2.1 Annual report; Nov., 1876-June, '78, June, '82-83, June, '85-86. District of Columbia-Commissioners. Wash., 1877-86. 4 v., pl., maps, 9 x 6, pap.
- 3.1 Annual report of the operations of the Department; June, 1878-97. District of Columbia-Engineer Department. Note: Reports, June, 1882-83, June, '85-86 wanting. Wash., 1880-97. 17 v., pl., maps, tab., 9 x 6, pap.
- 4.1 Report; June, 1871-Nov., '72. District of Columbia-Board of Public Works. no place, 1872 (?) 1 v., pl., tab., 9 x 5, cl.

**w10 WATERBURY, CONN.**

- 2.1 City Engineer. Annual report; 1890-92. Waterbury, 1891-93. 3 v., il., pl., tab., 9 x 6, pap.

**w20 WESTFIELD, MASS.**

- 2.1 Annual reports of the Treasurer, Selectmen, Overseers of Poor, Water Commissioners and Assessors of the Town of Westfield; Feb., 1877. Westfield, 1878. 1 v., 9 x 6, pap.

**w25 WICHITA, KAN.**

- 2.1 Municipal reports; Mar., 1889. Wichita, 1890. 1 v., 9 x 6, pap.

**O—(Continued).****w30 WILLIAMSPORT, PA.**

- 2.1 Mayor. Message. City Controller's report. and reports of Departments; 1889, '94-96. Williamsport, 1890-97. 4 v., tab., 9 x 6, pap.

**w35 WILMINGTON, DEL.**

- 2.1 Department of Engineering and Surveying. Annual report of the Chief Engineer; 1st, 3d-16th, 21st-22d: 1871, '73-86, '91-92. Wilmington, 1872-93. 16 v., 9 x 6, pap.
- 3.1 Street and Sewer Department. Annual Statement of the Board of Directors; 1st-5th, 7th-9th, 11th; 1887-91, '93-95, '97. Wilmington, 1889-98. 9 v., pl., tab., 9 x 6, pap.

**w40 WORCESTER, MASS.**

- Annual report; 1867-68. Worcester, 1868-69. 2 v., 9 x 6, b. p. Dc-431, p. 257.
- 2.1 Mayor. Inaugural address of the Mayor; with the annual reports of the several departments; 1848-84. Worcester, 1849-85. 37 v., tab., 9 x 6, pap.

**y9 YOUNGSTOWN, OHIO.**

- 2.1 Board of City Commissioners. Report; Apr., 1893. Youngstown, 1893. 1 v., 9 x 6, pap.



# LANDSCAPE ARCHITECTURE.

## P

- ADIRONDACK PARK, N. Y.** Map of the Adirondack Forest and adjoining territory; compiled from the official maps and field notes on file in the State Department at Albany, N. Y. New York State-Fisheries, Game and Forest Commission. 1898. (See Qf-301.)
- 34 **ALLEGHENY, PA.** Annual report of the Park Commission; 2d; 1869. Pittsburg, 1870. 1 v., 9 x 6, cl.  
—Annual reports of the Councils. (See Oa20-2.1.)
- 19 **BOSTON, MASS.** Annual report of the Board of Commissioners of Parks; 2d-25th; 1876-99. Bost., 1876-1900. 24 v., 9 x 6, pap.
- 42 —Annual report of the Board of Survey; 1893. Bost., 1894. 1 v., pl., maps, 9 x 6, cl.  
—Annual reports of the Engineering Department. (See Ob35-3.1.)
- 49 —Back-Bay Fens, The: Contract and specifications for building a retaining wall and culvert at the Longwood Entrance. Department of Parks. Bost., 1891. 23 pp., pl., 10 x 8, pap.
- 5 —Boston in the future; its park grounds, and a grand avenue through the city; with a map showing outlines of proposed annexations, including Charlestown, Somerville and Cambridge. Bost., 1871. 12 pp., maps, 9 x 6, pap.
- 47 —Contract and specifications for building an iron pier at Marine Park. Department of Parks. Bost., 1887. 28 pp., 9 x 6, pap.
- 48 —Contract and specifications for building a pier head at Marine Park. Department of Parks. Bost., 1889. 25 pp., pl., 10 x 8, pap.
- 51 —Contract and specifications for excavating ponds and grading at Franklin Park. Department of Parks. Bost., 1892. 20 pp., 10 x 8, pap.
- 52 —Contract and specifications for filling at Marine Park; 1889-90, '94. Department of Parks. Bost., 1889-94. 3 v., 10 x 8, pap.
- 81 —Contract and specifications for grading at Arnold Arboretum. Department of Parks. Bost., 1890. 19 pp., pl., 10 x 8, pap.
- 80 —Contract and specifications for grading at Charlestown Heights. Department of Parks. Bost., 1892. 20 pp., 10 x 8, pap.
- 53 —Contract and specifications for grading at Wood Island Park; 1891, '93. Department of Parks. Bost., 1891-93. 2 v., 10 x 8, pap.
- 82 —Contract and specifications for grading on Dorchester Parkway between Boston St. and the Old Colony R. R. Department of Parks. Bost., 1893. 20 pp., 10 x 8, pap.
- 83 —Contract and specifications for grading on Seaver St., between Maple St. and Walnut Ave. Department of Parks. Bost., 1893. 20 pp., 10 x 8, pap.
- 84 —Contract and specifications for grading on the Parkway. Department of Parks. Bost., 1890-91. 2 v., pl., 10 x 8, pap.
- 85 —Contract and specifications for grading on the Parkway, between Perkins St. and Centre St. Department of Parks. Bost., 1893. 21 pp., 10 x 8, pap.
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- 28 **MASSACHUSETTS—CENSUS, 1875.** Reports. Contents: v. 1, Population and social statistics. v. 2, Manufactures and occupations. v. 3, Agricultural products and property. v. 4, Compendium. Bost., 1876-77. 4 v., 9 x 6, cl.
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- 23 — Report and proceedings of the New Jersey Boundary Commission, appointed to locate and mark out, by stakes and buoys, the true boundary line between New York and New Jersey, in lands under water in the Hudson River, Bay of New York, Kill von Kull and Arthur Kill, or Staten Island Sounds. Note: Contains Final report upon the location of the true boundary line in lands under water in Raritan Bay. Jersey City, 1890. 46 pp., maps, 9 x 6, pap.



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- 25 — Report of the Pennsylvania Board of the Pennsylvania and New York Joint Boundary Commission. Harrisburg, 1878. 8 pp., 9 x 6, pap.
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- 1 **NORTH DAKOTA.** Preliminary report of explorations in Nebraska and Dakota, in the years 1855, '56, '57. G. K. Warren. Wash., 1875. 125 pp., map, 9 x 6, pap.
- 26 **OHIO.** Report of the Pennsylvania Board of the Pennsylvania, Ohio, and West Virginia Joint Boundary Commission; 1878-80. Harrisburg, 1879-81. 2 v., maps, 9 x 6, pap.
- 75 **OREGON.** Geographical memoir upon Upper California, in illustration of his map of Oregon and California. J. C. Frémont. (30th Cong., 2d Sess. House misc. doc. No. 5.) Wash., 1849. 34 pp., 9 x 6, b. p.  
—Geographical report. U. S.-Geographical Surveys West of the One Hundredth Meridian. 1889. (See Qe-44, v. 1.)
- 67 **PENNSYLVANIA.** Report of the New York, Pennsylvania and New Jersey Boundary Commission to the Regents of the University. Albany, 1881-84. 3 v., pl., map, 9 x 6, pap.
- 25 —Report of the Pennsylvania Board of the Pennsylvania and New York Joint Boundary Commission. Harrisburg, 1878. 8 pp., 9 x 6, pap.
- 26 —Report of the Pennsylvania Board of the Pennsylvania, Ohio, and West Virginia Joint Boundary Commission; 1878-80. Harrisburg, 1879-81. 2 v., maps, 9 x 6, pap.
- 2 —Report of the Regents of the University of the State of New York on the re-survey of the New York and Pennsylvania boundary line. Albany, 1878-80. 3 v., pl., maps, 9 x 6, pap.
- 92 —Report of the Secretary of Internal Affairs on the boundaries of the Commonwealth. no place, 1887. maps, 10 x 6, cl.
- 37 **QUEEN CHARLOTTE'S ISLAND.** Haidah Indians of Queen Charlotte's Islands, British Columbia, with a brief description of their carvings, tattoo designs, etc. J. G. Swan. (Smithsonian Contributions to Knowledge.) Wash., 1874. 18 pp., 7 pl., 13 x 10, pap.
- 70 **RHODE ISLAND.** Report of the Commissioners on the Topographical Survey, relative to the boundary line between the Commonwealth of Massachusetts and the State of Rhode Island and Providence Plantations. Mass.-Topographical Survey Commission. no place, 1899. 53 pp., map, 9 x 6, cl.
- RUSSIA.** Topographical survey of Russia. U. S.-War Department. 1885. (See Qe-16, p. 360.)
- 74 **SANTO DOMINGO.** Report; with the introductory message of the President, special reports made to the Commission, state papers furnished by the Dominican Government, and the statements of over seventy witnesses. U. S.-Commission of Inquiry to Santo Domingo. Wash., 1871. 297 pp., map, 9 x 6, cl.
- 66 **SHANGHAI, CHINA.** Special Engineer and Surveyor's Department report on the delimitation of the boundaries of Hongkew; or, the American settlement at Shanghai. Shanghai, 1893. 26 pp., phot., 9 x 6, pap.
- 22 **SIBERIA.** Report of Lieut. G. B. Harber, U. S. N., concerning the search for the missing persons of the *Jeannette* Expedition, and the transportation of the remains of Lieutenant-Commander De Long and companions to the United States. U. S.-Navy Department. no place, 1884. 75 pp., pl., map, 9 x 6, pap.
- 96 **SOUTH AMERICA.** Nueva expedición a las tierras y mares australes bajo el mando del Capitan Bove: conferencia dada por el Guardiamarina en el Instituto Geográfico Argentino el 2, de Julio de 1884. J. M. Noguera. Buenos Aires, 1884. 18 pp., 10 x 7, pap.
- 1 **SOUTH DAKOTA.** Preliminary report of explorations in Nebraska and Dakota, in the years 1855, '56, '57. G. K. Warren. Wash., 1875. 125 pp., map, 9 x 6, pap.
- 34 —Report of a reconnaissance of the Black Hills of Dakota made in the summer of 1874; by William Ludlow. U. S.-Corps of Engineers. Wash., 1875. 121 pp., pl., maps, 12 x 9, cl.
- 13 **TEXAS.** Reports of the Secretary of War, with reconnaissances of routes from San Antonio to El Paso, by Brevet Lt.-Col. J. E. Johnston, Lieut. W. F. Smith, Lieut. F. T. Bryan, Lieut. N. H. Michler, and Capt. S. G. French, of Quartermaster's Department; also, the report of Capt. R. B. Marcy's route from Fort Smith to Santa Fé; and the report of Lieut. J. H. Simpson of an expedition to the Navajo Country; and the report of Lieut. W. H. C. Whiting's reconnaissances of the frontier of Texas, July 24th, 1850. U. S.-War Department. (31st Cong., 1st Sess. Senate ex. doc. No. 64.) Wash., 1850. 250 pp., il., 75 pl., maps, 9 x 6, cl.
- 18 **UNITED STATES.** Annual report upon the Geographical Surveys of the Territory of the United States West of the One Hundredth Meridian; by George M. Wheeler; 1878-79. Note: Appendix to the Annual report of the Chief of Engineers. For reports of the surveys from 1875 to 1885, see Cc-93. Wash., 1879. 1 v., maps, 9 x 6, bds.  
—Annual report of the Geological and Geographical Survey of the Territories; 1st-8th; 1867-74. (See Yh-17.)

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- 53 —Atlantic to the Pacific: What to see, and how to see it. J. E. Lester. Bost., 1873. 365 pp., map, 7 x 5, cl.
- Boundaries of the United States and of the several states and territories, with a historical sketch of the territorial changes. Henry Gannett. 1885. (See Yh-87, No. 13.)
- 39 —Co-operation between National and State Governments in topographical surveys. H. F. Walling. N. Y., 1884. pp. 331-342, 10 x 7, pap.
- 7 —Elevations of certain datum-points on the Great Lakes and rivers and in the Rocky Mountains. J. T. Gardner. Wash., 1875. pp. 629-659, map, 9 x 6, pap.
- 61 —Geographical surveys in the United States: Remarks upon Prof. J. D. Whitney's article in the *North American Review*, July, 1875; concluding with an account of the origination of the Pacific R. R. G. K. Warren. Wash., 1877. 28 pp., 9 x 6, pap.
- 111 —Geological report of the exploration; by F. V. Hayden, under the direction of W. F. Reynolds, Corps of Engineers, 1859-60. Yellowstone and Missouri Exploring Expedition. Wash., 1869. 9 + 174 pp., map, 9 x 6, pap.
- History of discovery and explorations on the coasts of the United States. J. G. Kohl. 1885. (See Qe-80, Report, 1884, p. 495.)
- 19 —Letter from the Acting President transmitting a report on the surveys of the territories. National Academy of Sciences. (45th Cong., 3d Sess. House misc. doc. No. 5.) no place, 1878. 27 pp., 9 x 6, pap. no title-page.
- 21 —Lists of elevations principally in that portion of the United States west of the Mississippi River; collated and arranged by Henry Gannett. Geological and Geographical Survey of the Territories. ed. 4. Wash., 1877. 10 + 167 pp., map, 9 x 6, pap.
- Methods and results of the United States Coast and Geodetic Survey as illustrated at the World's Columbian Exposition, 1893. (Coast and Geodetic Survey. Bulletin No. 29.) 1893. (See Yl-42, v. 2, p. 39.)
- North American Boundary: Supplementary reports relating to the boundary between the British possessions in North America and the United States of America, under the Treaty of 1783. Lond., 1842. 120 pp., pl., map, 13 x 8, b. p. Zj-104, p. 481.
- 47 —Notes of a military reconnaissance, from Fort Leavenworth, in Missouri, to San Diego, in California, including parts of the Arkansas, Del Norte, and Gila Rivers; by W. H. Emory. Bureau of Topographical Engineers. (30th Cong., 1st Sess. Senate ex. doc. No. 7.) Wash., 1848. 416 pp., il., pl., 9 x 6, cl.
- On the organization of scientific work of the general government; by John W. Powell. Congress. 1885. (See Yh-140.)
- 81 —Photographic views showing monuments marking the boundary between the United States and Mexico, from the Rio Grande to the Pacific Ocean. International Boundary Commission. no place, 1892-94. 2 v., phot., 20 x 24, ½ ro.
- 4 —Report of a reconnaissance in the Ute Country, made in the year 1873; by E. H. Ruffner. Corps of Engineers. (43d Cong., 1st Sess. House ex. doc. No. 193.) Wash., 1874. 101 pp., map, 9 x 6, pap.
- 80 —Report of the Superintendent of the Coast and Geodetic Survey, showing the progress of the work; June, 1850-98. Wash., 1850-99. 49 v. in 54, 12 x 9, cl.
- 28 —Report on the United States and Mexican Boundary Survey, made under the direction of the Secretary of the Interior; by William H. Emory, United States Commissioner. Wash., 1857-59. 2 v. in 4, pl., 11 x 9, cl.
- 72 —Report upon the primary triangulation of the United States Lake Survey; by C. B. Comstock, aided by the assistants on the survey. Corps of Engineers. (Professional papers, Corps of Engineers, No. 24.) Wash., 1882. 20 + 925 pp., pl., maps, 12 x 9, cl.
- 44 —Report upon the surveys; in charge of George M. Wheeler. Geographical Surveys West of the One Hundredth Meridian. Contents: v. 1, Geographical report; Apx., Memoir of explorations and surveys, etc. v. 2, Astronomy and barometric hypsometry. v. 3, Pt. 1, Geology; Pt. 2, Supplement-Geology. v. 4, Paleontology. v. 5, Zoology. v. 6, Botany. v. 7, Archaeology. Wash., 1875-89. 7 v. in 9, il., pl., maps, 12 x 9, cl.
- 12 —Reports of inspection made in the summer of 1877 by P. H. Sheridan and W. T. Sherman, of country north of the Union Pacific R. R. War Department. Wash., 1878. 110 pp., pl., maps, 9 x 6, ½ mor.
- Reports on triangulation and spirit leveling in the United States since 1896. Geological Survey. 1897-99. (See Yh-40.)
- 52 —Reports upon the survey of the boundary between the territory of the United States and the possessions of Great Britain, from the Lake of the Woods to the summit of the Rocky Mountains, authorized by an act of Congress approved Mar. 19th, 1872; Archibald Campbell, Commissioner, W. J. Twining, Chief Astronomer. Northern Boundary Commission. (Department of State.) Wash., 1878. 2 v., pl., maps, 12 x 9 (atlas 16 x 23), cl., pap.
- 54 —Seat of empire. C. C. Coffin. Bost., 1871. 8 + 232 pp., pl., 7 x 5, cl.



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- Summary of the primary triangulation executed by the United States Geological Survey between the years 1882 and 1894; by Henry Gannett. 1896. (See R-8.)
- 49 —Tables of geographic positions, azimuths, and distances, together with lists of barometric altitudes, magnetic declinations, and itineraries of important routes; prepared principally by M. M. Macomb, from data gathered by parties of the surveys, operating in the states and territories of California, Colorado, Nebraska, Nevada, Oregon, Arizona, Idaho, New Mexico and Wyoming, 1883. *Geographical Surveys West of the One Hundredth Meridian*. Wash., 1885. 261 pp., 12 x 8, cl.
- 60 —Testimony before the Committee on Public Lands, on the surveys of the public lands in the West. Wash., 1878. 46 pp., 9 x 6, pap. no title-page.
- Topographical and hydrographical surveys of the United States. War Department. 1885. (See Qe-16, pp. 464, 524.)
- 46 **UTAH**. Exploration and survey of the Valley of the Great Salt Lake of Utah, including a reconnaissance of a new route through the Rocky Mountains; by Howard Stansbury. U. S.-Bureau of Topographical Engineers. (Special Sess., Mar., 1851. Senate ex. doc. No. 3.) Phil., 1852. 2 v., pl., maps, 9 x 6, cl.
- Exploration of the Colorado River of the West and its tributaries; explored in 1869, 1870, 1871, and 1872, under the direction of the Secretary of the Smithsonian Institution. 1875. (See Sa3-19.8.)
- 75 —Geographical memoir upon Upper California, in illustration of his map of Oregon and California. J. C. Frémont. (30th Cong., 2d Sess. House misc. doc. No. 5.) Wash., 1849. 34 pp., 9 x 6, b. p.
- Geographical report. U. S.-Geographical Surveys West of the One Hundredth Meridian. 1889. (See Qe-44, v. 1.)
- 45 —Progress report in 1872; by George M. Wheeler. U. S.-Geographical Surveys West of the One Hundredth Meridian. Wash., 1874. 56 pp., il., 5 pl., map, 12 x 9, cl.
- 29 —Report of explorations across the Great Basin of the Territory of Utah for a direct wagon route from Camp Floyd to Genoa, in Carson Valley, in 1859; by Capt. J. H. Simpson. U. S.-Bureau of Topographical Engineers. Wash., 1876. 518 pp., pl., maps, 12 x 9, cl.
- 31 —Report of the exploring expedition from Santa Fé, New Mexico, to the junction of the Grand and Green Rivers of the Great Colorado of the West, in 1859, under the command of Capt. J. N. Macomb; with geological report, by J. S. Newberry. U. S.-Bureau of Topographical Engineers. Wash., 1876. 7 + 152 pp., pl., map, 12 x 9, cl.
- 114 —Report upon the Colorado River of the West, explored in 1857 and 1858 by Lieutenant Joseph C. Ives, A. A. Humphreys in charge. U. S.-Exploration and Surveys. (36th Cong., 1st Sess. Senate ex. doc.) Wash., 1861. 5 pts. in 1 v., il., pl., maps, 12 x 9, cl.
- 95 **VERMONT**. Report of the Commissioners on Massachusetts and Vermont Boundaries. no place, 1899. 19 pp., maps, 9 x 6, cl. no title-page.
- 75 **WASHINGTON**. Geographical memoir upon Upper California, in illustration of his map of Oregon and California. J. C. Frémont. (30th Cong., 2d Sess. House misc. doc. No. 5.) Wash., 1849. 34 pp., 9 x 6, b. p.
- 35 **WYOMING**. Report of a reconnaissance from Carroll, Montana Territory, on the Upper Missouri, to the Yellowstone National Park, and return, made in the summer of 1875; by William Ludlow. U. S.-Corps of Engineers. Wash., 1876. 155 pp., il., 2 pl., maps, 12 x 9, cl.
- 8 —Report of an exploration of parts of Wyoming, Idaho, and Montana, in Aug. and Sept., 1882; made by Lieut.-Gen. P. H. Sheridan; with the itinerary of Col. Jas. F. Gregory; and a geological and botanical report by Surgeon W. H. Forwood. U. S.-War Department. Wash., 1882. 69 pp., map, 9 x 6, pap.
- 5 —Report of Gustavus C. Doane, upon the so-called Yellowstone Expedition of 1870. U. S.-Corps of Engineers. (41st Cong., 3d Sess. Senate ex. doc. No. 51.) Wash., 1873. 40 pp., 9 x 6, pap.
- 9 —Report of the Surveyor General; 1879. Wash., 1879. 8 pp., 9 x 6, pap.
- 48 —Report upon the reconnaissance of Northwestern Wyoming, including Yellowstone National Park, made in the summer of 1873; by William A. Jones; with appendix. U. S.-Corps of Engineers. Wash., 1875. 6 + 331 pp., il., pl., maps, 9 x 6, cl.
- 102 **YELLOWSTONE RIVER**. Report of an expedition up the Yellowstone River, made in 1875, by James W. Forsyth and F. D. Grant, under the orders of Lieut.-Gen. P. H. Sheridan. U. S.-War Department. Wash., 1875. 17 pp., pl., map, 9 x 6, pap.
- 100 —Report of a reconnaissance of the Basin of the Upper Yellowstone in 1871; by J. W. Barlow, assisted by D. P. Heap. U. S.-Corps of Engineers. (42d Cong., 2d Sess. Senate ex. doc. No. 66.) Wash., 1872. 43 pp., map, 10 x 6, pap.
- 101 —Report on the exploration of the Yellowstone River, by W. F. Reynolds; communicated by the Secretary of War, in compliance with a resolution of the Senate, Feb. 13th, 1866. U. S.-Corps of Engineers. (40th Cong., 1st Sess. Senate ex. doc. No. 77.) Wash., 1866. 174 pp., map, 9 x 6, pap.

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- 307 **ADDISON COUNTY, VT.** Map. H. F. Walling. Bost., 1857. sheet, 15 x 10, cl. scale, 1: 50 000.
- 301 **ADIRONDACK WILDERNESS.** Map of the Adirondack Forest and adjoining territory: compiled from the official maps and field notes on file in the State Departments at Albany, N. Y. New York State-Fisheries. Game and Forest Commission. N. Y., 1898. 2 sheets, 58 x 36, cl. scale about 9 000 ft. to 1 in.
- 259 —Map of the Adirondack Wilderness and adjoining territory. New York State-Forest Commissioners. no place, 1884. 6 sheets. scale about 1 mile to 1 in.
- 255 **AFRICA.** Africa, oriental; reconhecimento para os estudos do Caminho de Ferro da Beira a Manica efectuado em 1891 pelos officaes da companhia mixta de engenharia expedicionaria a Moçambique. J. R. Baptista. no place, no date. scale, 1: 500 000.
- 376 —Carta da Provincia de Moçambique. Portugal-Ministerio da Marinha e Ultramar. Lisboa, 1890. sheet, 30 x 24, bds. scale, 1: 3 000 000.
- 156 —Carta das possessões Portuguezas da Africa meridional. Portugal-Commissaõ de Cartographia. no place, 1891. 7 sheets. various scales.
- 138 **AGATE HARBOR, MICH.** Preliminary chart of Agate Harbor, Lake Superior. U. S.-Bureau of Topographical Engineers. no place, 1858. scale, 1: 10 000.
- 389.1 **ALABAMA.** Geologic atlas of the United States: Alabama folios. U. S.-Geological Survey. Wash., 1894-98. 2 v., 22 x 18, pap. scale, 1: 125 000.
- 390.1 —Topographic atlas sheets of Alabama. U. S.-Geological Survey. Wash., 1889-99. 18 sheets, 17 x 15, pap. scale, 1: 125 000. contour intervals, 50 and 100 ft.
- 398 **ALBANY, N. Y.** Albany and vicinity; surveyed in 1891. U. S.-Geological Survey. no place, 1894. sheet, 36 x 26, pap. scale, 1: 62 500.
- 269 —Isometrical projection of territory adjacent to the City of Albany, showing the plans proposed for the extension of the Albany City Water-works. Albany-Water Commissioners. Albany, 1868 (?) sheet, 29 x 42, pap. no scale given.
- 22 —Map of the City of Albany, with villages of Greenbush, East Albany and Bath, N. Y. E. Jacob. Albany, 1857. scale, 300 ft. to 1 in.
- Map of the neighborhood of the City of Albany, showing the routes of the proposed plans for furnishing a supply of water. F. W. Birmingham. 1850. (See De-325.)
- 382 **ALBANY & SUSQUEHANNA R. R.** A. Fischer. N. Y., 1854. sheet, 42 x 16, pap. scale, 1: 230 400.
- 383 —Map showing the position of the A. & S. R. R. in relation to the other railroads of the States of New York, Pennsylvania and Massachusetts, etc. N. Y., 1854. sheet, 28 x 35, pap. no scale given.
- 219 **ALBEMARLE SOUND, N. C.** U. S.-Coast and Geodetic Survey. no place, 1877-80. 2 sheets. scale, 1: 80 000.
- 308 **ANDOVER, MASS.** Map of the Town of Andover, Essex Co., Mass. H. F. Walling. Bost., 1852. sheet, 12 x 10, cl. scale, 1: 18 000.
- 476 **ANDROSCOGGIN RIVER.** Maps of the Androscoggin and Cobbisseconte Rivers. no place, no date. 6 sheets, various sizes, pap. scale about  $\frac{1}{4}$  mile to 1 in. no title-page.
- 233 **ANGERS, FRANCE.** Plan géométrique de la Ville d'Angers d'après le plan du Cadastre; modifié conformément à l'état actuel de la ville. Abel Duveau. Angers, 1863 (?) scale, 1: 5 000.
- 197 **ANNAPOLIS HARBOR, MD.** U. S.-Coast Survey. no place, 1846. scale, 1: 60 000.
- 466 **ARGENTINE REPUBLIC.** Mapa de la Provincia de Catamarca, construido segun datos recogidos y observaciones personales hechas en los años 1887-93. Gunardo Lange. La Plata, 1893. 2 v., 10 x 7 (maps 36 x 40), pap. scale, 1: 500 000.
- 390.2 **ARIZONA.** Topographic atlas sheets of Arizona. U. S.-Geological Survey. Wash., 1887-93. 15 sheets, 17 x 15, pap. scale, 1: 250 000. contour intervals, 200 and 250 ft.
- 390.3 **ARKANSAS.** Topographic atlas sheets of Arkansas. U. S.-Geological Survey. Wash., 1890-99. 15 sheets, 17 x 15, pap. scales: 1: 62 500; 1: 125 000. contour intervals, 20 and 50 ft.
- 475 **ARKANSAS RIVER.** Maps of the survey of the Arkansas River, by S. T. Abert, Feb., 1868, to July, 1869. U. S.-Corps of Engineers. no place, no date. 5 phot., 6 x 15, pap. no title-page. no scale given.
- 477 —Military reconnaissance of the Arkansas, Rio del Norte, and Rio Gila, by W. H. Emory, under command of Stephen W. Kearny; constructed under the orders of J. J. Abert. U. S.-Bureau of Topographical Engineers. Wash., 1847. sheet, 32 x 70, pap. scale drawn; about 24 miles to 1 in.
- 230 **ATLANTIC OCEAN.** Chart of the North Atlantic Ocean; from the most recent British, French and United States Surveys. U. S.-Hydrographic Office. Wash., 1872. 2 sheets. no scale given.
- 257 —Chart of the South Atlantic Ocean, from the Equator to 65° south latitude; from the most recent British, French and Brazilian authorities. U. S.-Hydrographic Office. Wash., 1869. 2 sheets. no scale given.

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- 4 — Pilot chart of the North Atlantic Ocean (monthly); 1886-97. U. S.-Hydrographic Office. Note: Jan., Feb., 1886, Oct.-Dec., 1897 wanting. Wash., 1886-97. sheets, 24 x 34, pap. no scale given.
- 148 **AUGUSTA COUNTY, VA.** Map; prepared by Jed Hotchkiss, Dec., 1865. U. S.-Bureau of Topographical Engineers. no place, 1875. scale,  $1\frac{1}{2}$  miles to 1 in.
- 424 **AUSTRIA-HUNGARY.** Post- und Eisenbahn-Karte der österreichisch-ungarischen Monarchie; herausgegeben vom Post-Cours-Bureau des k. k. Handelsministeriums, gezeichnet von Joh. Gottwald u. Jos. Broditzky. Alexander Mayer. Wien, no date. sheets, 27 x 21, bds. scale, 1:576 000.
- 511 **BADEN.** Karten über die Binnenflüsse im Grosherzogthum Baden nach dem Stande vom Jahre 1863. Oberdirektion des Wasser- und Strassen-baues. no place, 1863. sheets, 11 x 9, bds. scale, 1:25 000.
- 423 **BAHIA, BRAZIL.** Mapa do Estado da Bahia, 1892. Miguel de Teive e Argollo. no place, no date. sheet, 24 x 25, cl. scale, 1:10 000.
- 252 **BALTIMORE & OHIO R. R.** Map and profile of the location of the B. & O. R. R.; from Cumberland to Wheeling, showing also the various routes surveyed from the year 1836 to the final establishment in 1850 of the line upon which the road is being constructed. B. H. Latrobe. Balt., 1850. scales: horizontal, 2 miles to 1 in.; vertical, 500 ft. to 1 in.
- 75 **BARNSTABLE COUNTY, MASS.** Map of the Counties of Barnstable, Dukes and Nantucket, Mass.; based upon the trigonometrical survey of the state, the details from actual surveys. H. F. Walling. Bost., 1858. scale, 1:63 360.
- 22 **BATH, N. Y.** Map of the City of Albany, with villages of Greenbush, East Albany and Bath. N. Y. E. Jacob. Albany, 1857. scale, 300 ft. to 1 in.
- 186 **BEAUFORT HARBOR, N. C.** Preliminary sketch of Beaufort Harbor. U. S.-Coast Survey. no place, 1851. scale, 1:20 000.
- 306 **BENNINGTON COUNTY, VT.** Map. E. Rice and C. E. Harwood. N. Y., 1856. sheet, 15 x 11, cl. scale, 1 mile to 1 in.
- 346 **BERLIN, GERMANY.** Topographische Karte der Umgegend von Berlin. Ber., no date. sheet, 26 x 19, pap. no scale given.
- 123 **BLACK ROCK HARBOR, CONN.** Harbors of Black Rock and Bridgeport. U. S.-Coast Survey. no place, 1848. scale, 1:20 000.
- 487 **BLACK SEA.** New map of the Black Sea, Caucasus, Crimea, etc., with enlarged plans of Sevastopol as seen by the officers of H. M. S. F. *Retribution* 6th Jan., 1854, and the Bosphorus. W. and A. K. Johnston, pub. Edin., 1854., sheet, 21 x 27, pap. scale about 4 miles to 1 in.
- 89 **BLACKSTONE, MASS.** Map of the Town of Blackstone, Worcester Co., Mass. H. F. Walling. no place, 1854. scale, 1 000 ft. to 1 in.
- 38 **BOSTON, MASS.** Map of Boston and vicinity. H. F. Walling. Bost., 1859. scale,  $\frac{1}{2}$  mile to 1 in.
- 362 — Map of Boston and vicinity, showing metropolitan park system; prepared for 27th annual convention of the American Society of Civil Engineers, June 18th to 22d, 1895. Bost., 1895. sheet, 23 x 33, pap. no scale given.
- 5 — Map of the City of Boston and its environs, from actual surveys. D. J. Lake. Bost., 1867. scale about 1 mile to 1 in.
- BOSTON WATER-WORKS.** Map showing the several systems of supply already constructed; also drainage areas. Boston-City Engineer. 1878. (See Dc-834.)
- 59 **BOYLSTON, MASS.** Map of the Town of Boyiston, Worcester Co., Mass.; surveyed by order of the Town. H. F. Walling. no place, 1856. scale,  $\frac{1}{2}$  mile to 1 in.
- 247 **BRAZIL.** Maps of Brazil. no place, 1875. 8 sheets. scale, 1:3 710 220.
- 57 **BREYARD COUNTY, FLA.** Map. J. F. LeBaron. Jacksonville, 1885. scale, 1:190 080.
- 123 **BRIDGEPORT HARBOR, CONN.** Harbors of Black Rock and Bridgeport. U. S.-Coast Survey. no place, 1848. scale, 1:20 000.
- 77 **BRISTOL COUNTY, MASS.** Map; based upon the trigonometrical survey of the state, the details from actual surveys. H. F. Walling. N. Y., 1858. scale, 240 rods to 1 in.
- 68 **BRISTOL COUNTY, R. I.** Map. H. F. Walling. Providence, 1851. scale, 1:25 000.
- 366 **BRITISH COLUMBIA.** Map of the country adjacent to Puget Sound, embracing British Columbia and the counties of Western Washington. Baker, Balch & Co. Seattle, no date. sheet, 28 x 16, pap. no scale given.
- 43 **BROME COUNTY, CANADA.** Map of the Counties of Shefford, Iberville, Brome, Missisquoi and Rouville, Canada East. O. W. Gray. no place, 1864. scale about  $1\frac{1}{2}$  miles to 1 in.
- 34 **BROOKLYN, N. Y.** City and county map of New York, Brooklyn, Williamsburgh, Jersey City and the adjacent waters. J. H. Colton. N. Y., 1862. scale about  $\frac{1}{2}$  mile to 1 in.
- 132 — Map. Brooklyn & Union Elevated R. R. Co. N. Y., 1889. scale about 1 540 ft. to 1 in.



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- 21 —New map of New York, Brooklyn, Jersey City, etc. Gaylord Watson. N. Y., 1872. no scale given.
- 100 **BUFFALO HARBOR, N. Y.** Chart of Buffalo Harbor and head of Niagara River with the outlet of Lake Erie. U. S.-Bureau of Topographical Engineers. no place, 1856 (?) scale, 1 : 30 000.
- 399 **BUTTE, MONT.** Montana (Silver Bow Co.): Butte special map. U. S.-Geological Survey. no place, 1897. sheet, 17 x 24, pap. scale, 1 : 150 000. contour intervals, 20 ft.
- 384 **CAIRO & FULTON R. R.** Map showing the line of the C. & F. R. R. and its connections. G. W. and C. B. Colton & Co., pub. N. Y., 1871. sheet, 25 x 24, pap. scale about 38 miles to 1 in.
- 310 **CALEDONIA COUNTY, VT.** Map. H. F. Walling. N. Y., 1858. sheet, 15 x 10, cl. scale, 1 : 50 000.
- 389.4 **CALIFORNIA.** Geologic atlas of the United States: California folios. U. S.-Geological Survey. Wash., 1894-98. 12 v., 12 x 18, pap. scales: 1 : 14 400; 1 : 125 000; 1 : 250 000.
- 342 —Map of Oregon and Upper California, from the surveys of John Charles Frémont and other authorities; drawn by Charles Preuss. Balt., 1848. sheet, 26 x 30, pap. no scale given.
- 409 —Preliminary mineralogical and geological map of the State of California. California-State Mining Bureau. no place, 1891. sheet, 54 x 29, pap. scale, 12 miles to 1 in.
- 411 —Sacramento Valley from Iron Cañon to Suisun Bay. California-Commissioner of Public Works. San Fran., 1895. sheet, 85 x 39, pap. scale, 2 miles to 1 in.
- 390.4 —Topographic atlas sheets of California. U. S.-Geological Survey. Wash., 1891-99. 73 sheets, 17 x 15, pap. scales: 1 : 62 500; 1 : 125 000; 1 : 250 000. contour intervals, 25, 50 and 100 ft.
- 414 —Topographical maps of California: American Basin, Sutter Basin, Yolo Basin, Colusa Basin, and Sacramento and Lower San Joaquin Valleys. California-Commissioner of Public Works. San Fran., 1895. 6 sheets, various sizes, pap. various scales.
- 50 **CAMBRIDGE, MASS.** Map. H. F. Walling. Bost., 1854. scale, 1 : 6 000.
- 297 **CANADA.** Appendix to report of the Commissioner. Department of Crown Lands. Contents: Pt. 1, wanting. Pt. 2, Maps of Canada. Toronto, 1857. sheets, various sizes, bds. various scales.
- 281 —Atlas of the Dominion of Canada. H. F. Walling. Montreal, 1875. 251 pp., maps, 17 x 14,  $\frac{3}{4}$  mor. various scales.
- Geological map of Canada: Result of surveys from 1842-1882. A. R. C. Selwyn and G. M. Dawson. 1884. (See Yh-88, v. 2.)
- 272 —Government map of part of the Dominion of Canada, embracing the Provinces of Ontario, Quebec, Manitoba, New Brunswick, Nova Scotia, Prince Edward Island, etc.; comp. under the direction of Thomas Devine. Department of Crown Lands. no place, 1873. scale about 28 $\frac{1}{2}$  miles to 1 in.
- 332 —Map of part of the North West Territory, including the Province of Manitoba, shewing an approximate classification of the lands. Department of the Interior. Montreal, 1878. sheet, 27 x 20, pap. no scale given.
- 465 —New and complete map of all the railroads in the United States and Canada in operation and progress. H. V. Poor. N. Y., 1857. sheet, 35 x 42, cl. scale, 33 $\frac{1}{2}$  miles to 1 in.
- 13 —New county and railroad map of the United States and of the Dominion of Canada. Gaylord Watson. N. Y., 1873. scale about 35 miles to 1 in.
- 20 —New railroad and distance map of the United States and Canada. Gaylord Watson. N. Y., 1868. scale about 36 miles to 1 inch.
- 80 —New topographical map of the whole Dominion of Canada, with a large section of the United States; comp. from the latest and most authentic sources, with additions and corrections to date of publication. John Johnston. Montreal, 1874. scale, 27 $\frac{1}{2}$  miles to 1 in.
- Plans of various lakes and rivers between Lake Huron and the River Ottawa, to accompany the geological reports for 1853, '54, '55, '56. 1857. no scale given. (See Yh-37.)
- 226 **CAPE COD HARBOR.** Comparative map of Cape Cod Harbor, showing physical changes between the survey in 1835 and the United States Coast Survey in 1867. Massachusetts-Cape Cod Harbor Commission. no place, no date. scale about  $\frac{1}{4}$  mile to 1 in.
- 200 **CAPE FEAR RIVER.** Sketch of Frying-Pan Shoals and Cape Fear River. U. S.-Coast Survey. no place, 1851. scale, 1 : 120 000.
- 242 **CAPE FLATTERY, WASH.** Cape Flattery and Neé-ah Harbor, Wash. U. S.-Coast Survey. no place, 1853. scale, 1 : 40 000.
- 155 **CAPE VERDE ISLANDS.** Maps. Portugal-Commissão de Cartographia. no place, 1888. 7 sheets. scale, 1 : 100 000.

## Qf—(Continued).

- 115 **CAPTAIN'S ISLAND, CONN.** Harbors of Captain's Island East and Captain's Island West. U. S.-Coast Survey. no place, 1849. scale, 1:20 000.
- 211 **CARIBBEAN SEA.** Gulf of Mexico, West Indies, and Caribbean Sea; from the most recent United States Coast Survey, Spanish and British Admiralty charts. U. S.-Hydrographic Office. Wash., 1869. 6 sheets. no scale given.
- 188 **CAT ISLAND HARBOR.** Cat and Ship Island Harbors. U. S.-Coast Survey. no place, 1850. scale, 1:40 000.
- 167 **CATALINA HARBOR, CAL.** Reconnaissance of Catalina Harbor and the anchorage on the N. E. side of the island. U. S.-Coast Survey. no place, 1852. scale, 1:15 000.
- 370 **CATSKILL MOUNTAINS.** Relief map. N. Y., no date. sheet, 8 x 10, pap. no scale given.
- 182 **CAWKIN'S ISLAND, CONN.** Harbors of Sheffield Island and Cawkin's Island. U. S.-Coast Survey. no place, 1848. scale, 1:20 000.
- 322 **CAYUGA LAKE, N. Y.** Surveyed by the Senior and Junior classes from 1874-78. Cornell University-Engineer Department. N. Y., 1884. scale, 1:60 000.
- 7 **CENTRAL AMERICA.** Karte des Nördlichen tropischen America: A new map of tropical America north of the Equator, comprising the West Indies, Central America, Mexico, New Granada and Venezuela. H. Kiepert. Ber., 1853. variable scale about 61 miles to 1 in.
- 35 — Map of the United States, Mexico, Central America, California, Oregon, New Mexico, W. Indies, etc., with the boundaries of the several states, railroads, canals, etc. H. S. Tanner. N. Y., no date. no scale given.
- 260 **CENTRAL PACIFIC R. R.** Map of C. P. R. R. across summit of Sierra Nevada. no place, no date. scale, 1 600 ft. to 1 in.
- 501 **CERRO DE PASCO MINING DISTRICT.** Map of the Cerro de Pasco Mining District, Peru, South America; to accompany the reports of the Cerro de Pasco Mining Commission, 1887. no place, 1888. sheet, 40 x 29, pap. scale, 1:8 000.
- 311 **CHARLESTON, S. C.** Historical map of Charleston, 1670-1883; comp. from United States Coast Survey map, harbour charts, railroad and private plats; by Louis J. Barbok. City Civil Engineer. Charleston, 1884. sheet, 14 x 13, cl. scale about 571 ft. to 1 in.
- 278 **CHATTANOOGA, TENN.** Atlas of the battlefields of Chickamauga, Chattanooga and vicinity. U. S.-Chickamauga and Chattanooga National Park Commission. Wash., 1896-97. 7 pl., 27 x 20, pap. various scales.
- 348 — Chattanooga mineral district. no place, no date. sheet, 40 x 28, pap. no scale given.
- 180 **CHESTER RIVER, MD.** Mouth of Chester River. U. S.-Coast Survey. no place, 1849. scale, 1:40 000.
- 172 **CHICAGO, ILL.** Map. U. S.-Corps of Engineers. (Survey of the Northern and North Western Lakes.) no place, 1872. scale about 1 000 ft. to 1 in.
- 150 **CHICAGO INTERNATIONAL EXHIBITION, 1893.** Map of the buildings and grounds of the World's Columbian Exposition at Jackson Park and the Midway Plaisance, Chicago, Ill.; issued by the Department of Works. Chic., 1893. scale about 100 ft. to 1 in.
- 422 **CHICAGO RIVER.** Atlas containing maps of Chicago River, Ill., and its branches; showing result of improvement by the United States Government, under direction of Major W. L. Marshall, Corps of Engineers, U. S. A., in 1896 to 1899. U. S.-Corps of Engineers. Wash., no date. pl., maps, 29 x 23, pap. scale, 100 ft. to 1 in.
- 278 **CHICKAMAUGA, TENN.** Atlas of the battlefields of Chickamauga, Chattanooga and vicinity. U. S.-Chickamauga and Chattanooga National Park Commission. Wash., 1896-97. 7 pl., 27 x 20, pap. various scales.
- 39 **CHITTENDEN COUNTY, VT.** Map. H. F. Walling. Bost., 1857. scale about 4 000 ft. to 1 in.
- 173 **CITY HALL PARK, NEW YORK CITY.** Plan. no place, no date. scale, 30 ft. to 1 in.
- 432 **CITY OF MEXICO & TUXPAN RY.** Map. no place, no date. sheet, 29 x 20, pap. scale about 25 miles to 1 in.
- 309 **CLINTON COUNTY, OHIO.** Map. H. F. Walling. N. Y., 1859. sheet, 15 x 10, cl. scale,  $\frac{1}{2}$  mile to 1 in.
- 40 **CLINTON COUNTY, PA.** Map. H. F. Walling. N. Y., 1862. scale, 1 mile to 1 in.
- 223 **COLOMBIA.** Maps of the United States of Colombia. Bogota, 1864. 10 sheets. scales: 1:810 000; 1:1 350 000.
- 389.5 **COLORADO.** Geologic atlas of the United States: Colorado folios. U. S.-Geological Survey. Wash., 1894-98. 4 v., 22 x 18, pap. scales: 1:25 000; 1:31 680; 1:62 500; 1:125 000.
- 390.5 — Topographic atlas sheets of Colorado. U. S.-Geological Survey. Wash., 1891-99. 52 sheets, 17 x 15, pap. scales: 1:62 500; 1:125 000. contour intervals, 25, 50 and 100 ft.

## Qf—(Continued).

- 168 **COLUMBIA RIVER.** Mouth of Columbia River. U. S.-Coast Survey. no place, 1851. scale, 1:40 000.
- CONNECTICUT.** Geographic dictionary of Connecticut. Henry Gannett. 1894. (See Yh-87, No. 117.)
- 390.6 —Topographic atlas sheets of Connecticut. U. S.-Geological Survey. Wash., 1891-97. 23 sheets, 17 x 15, pap. scale, 1:62 500. contour intervals, 20 ft.
- 418 —Topographical atlas of the State of Connecticut: by the United States Geological Survey in cooperation with the state. U. S.-Geological Survey. Hartford, 1893. sheets, 21 x 17,  $\frac{3}{4}$  mor. scale, 1:62 500.
- 246 **CONNECTICUT RIVER.** Mouth of Connecticut River. U. S.-Coast Survey. no place, 1853. scale, 1:20 000.
- 434 **CONTINENTAL RY.** Map showing the route of the Continental Ry. and its connecting lines. G. W. and C. B. Colton & Co., pub. N. Y., 1873. sheet, 21 x 40, pap. scale, 35 miles to 1 in.
- 140 **COPPER HARBOR, MICH.** Preliminary chart of Copper Harbor. U. S.-Corps of Engineers. (Survey of the Northern and North Western Lakes.) no place, 1865. scale, 1:10 000.
- 69 **CROTON WATER SHED.** Entire Croton water-shed above Quaker Bridge. no place, no date. scale, 2 000 ft. to 1 in.
- 127 —Topographical map of Croton water-shed, W. E. Worthen, C. E. New York City-Aqueduct Commission. N. Y., 1889. scale,  $\frac{1}{4}$  mile to 1 in.
- 144 —Topographical map showing the entire water-shed of Croton River above the Croton Aqueduct Dam; also the most available sites for storage reservoirs; from minute surveys made during the years 1857 and 1858. New York City-Aqueduct Commission. N. Y., 1858 (?) scale about  $\frac{2}{3}$  mile to 1 in.
- 122 **CUYLER'S HARBOR, CAL.** Reconnaissance of Prisoner's Harbor, Cal., and reconnaissance of Cuyler's Harbor, Island of San Miguel, Cal. U. S.-Coast Survey. no place, 1852. scale, 1:20 000.
- 415 **DANUBE RIVER.** Carte du Danube et de ses embranchements entre Braila et la mer, levée en 1870-1871, by Robert Hansford, Arpenteur de la Commission et Charles Kuhl, Ingénieur Civil, sous la direction de Sir Charles A. Hartley, Ingénieur en Chef, Commission Européenne du Danube. Leipzig, 1886. 5 pl., 28 x 20, pap. scale, 1 marine mile to 1 in.
- 195 **DAVISS SOUTH SHOAL.** Preliminary sketch, showing the positions of Daviss South Shoal and other dangers recently discovered by the Coast Survey, and the soundings on the Old South Shoal, Bass Rip, Old Man, Pochick Rip, etc. U. S.-Coast Survey. no place, 1851 (?) scale, 1:200 000.
- 212 **DELAWARE RIVER.** Map of Delaware Bay and River. U. S.-Coast Survey. no place, 1848. scale, 1:80 000.
- 435 **DENVER & RIO GRANDE R. R.** Map of the D. & R. G. R. R. system. Rand, McNally & Co., pub. Chic., no date. sheet, 15 x 18, pap. no scale given.
- 106 **DETROIT RIVER.** Preliminary chart of mouth of Detroit River. U. S.-Corps of Engineers. (Survey of the Northern and North Western Lakes.) no place, 1874 (?) scale, 1:20 000.
- 355 **DISTRICT OF COLUMBIA.** New topographical atlas of the State of Maryland and the District of Columbia, with descriptions, historical, scientific, and statistical; together with maps of the United States and Territories. S. J. Martenet, H. F. Walling and O. W. Gray. Balt., 1873. various pagings, maps, 18 x 13,  $\frac{1}{2}$  mor. various scales.
- 401 —Washington and vicinity. U. S.-Geological Survey. no place, 1895. sheet, 18 x 27, pap. scale, 1:62 500. contour intervals, 20 ft.
- 75 **DUKES COUNTY, MASS.** Map of the Counties of Barnstable, Dukes and Nantucket, Mass.; based upon the trigonometrical survey of the state, the details from actual surveys. H. F. Walling. Bost., 1858. scale, 1:63 360.
- 341 **DUNKIRK, N. Y.** Map of Webster's addition to the City of Dunkirk, N. Y. C. L. Webster. N. Y., 1880. sheet, 22 x 17, pap. no scale given.
- 319 **DUVAL COUNTY, FLA.** J. F. Le Baron. Jacksonville, 1884. sheet, 24 x 20, pap. scale about 2 miles to 1 in.
- 363 —Map; made by order of the County Commissioners. ed. 2. J. F. Le Baron. Bost., 1898. sheet, 44 x 53, pap. scale, 1:63 360.
- 141 **EAGLE HARBOR, MICH.** Preliminary chart of Eagle Harbor, Lake Superior. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) no place, 1855. scale, 1:5 000.
- 139 —Same. no place, 1859. scale, 1:10 000.
- 22 **EAST ALBANY, N. Y.** Map of the City of Albany, with villages of Greenbush, East Albany and Bath, N. Y. E. Jacob. Albany, 1857. scale, 300 ft. to 1 in.
- 87 **EASTON, MASS.** H. F. Walling. N. Y., 1855. scale, 1:15 000.
- 116 **EDGARTOWN HARBOR, MASS.** U. S.-Coast Survey. no place, 1848. scale, 1:20 000.



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- 350 **EDINBURGH, SCOTLAND.** Map. no place, no date. sheet, 21 x 16, pap. no scale given.
- 14 — Plan of the City of Edinburgh and Town of Leith, with their environs, showing all the recent and intended improvements, lines of railway, etc. James Kirkwood & Son. no place, no date. scale about 360 ft. to 1 in.
- 345 **EGYPT.** Special large scale war map of the Soudan, extending to Suakim on the Red Sea, with enlarged plan of Khartum, 1885. George Phillip & Son, pub. Lond., 1885. sheet, 31 x 22, pap. no scale given.
- 231 **ENGLISH CHANNEL.** From British and French surveys, corrected to Mar., 1871. U. S.-Hydrographic Office. Wash., 1871. 3 sheets. no scale given.
- 96 **ERIE, LAKE.** Compiled from surveys made in obedience to acts of Congress, requiring the survey of the Northern and North Western Lakes, and from other reliable information, 1849. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) Wash., 1853. scale, 1: 400 000.
- 99 — West end of Lake Erie and Detroit River. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) Wash., 1852 (?) scale, 1: 120 000.
- 128 **ERIE RY.** Map of Erie Ry. and profiles of branches. Erie Ry. Co. N. Y., no date. scales: map, 20 miles to 1 in.; horizontal profile, 4 miles to 1 in.; vertical profile, 400 ft. to 1 in.
- 337 **EUROPE.** Map. N. Y., 1854. sheet, 26 x 24, pap. no scale given.
- 364 — Map of the seat of war in the Danubian Principalities and Turkey, with the adjoining countries. ed. 10. W. and A. K. Johnston, pub. Edin., 1854. sheet, 27 x 21, pap. no scale given.
- 371 — New map of the seat of war, comp. from the latest German and Austrian surveys, and comprising the Black Sea, Crimea, Danubian Provinces, Russia, Turkey in Asia, etc.; with plan of Kronstadt, St. Petersburg, and ground plan of siege operations before Sebastopol. G. S. Wells, pub. N. Y., 1855. sheet, 20 x 24, pap. no scale given.
- 441 — Special-Karte der Eisenbahn-, Post- und Dampfschiff-Verbindungen Mittel Europa's, mit Angabe aller Eisenbahn-Post- und Dampfschiff-Stationen, Speditionsorte, Zoll- und Steuerämter, Bäder, Mineralquellen. C. J. C. Raab. Glogau, no date. sheet, 45 x 54, cl. scale about 4½ German miles to 1 in.
- 225 — West coast of Europe from the Irish Channel to the Straits of Gibraltar; from the latest surveys up to 1872. U. S.-Hydrographic Office. Wash., 1872. no scale given.
- 88 **FAIR HAVEN, MASS.** Map. H. F. Walling. N. Y., 1855. scale, 1: 25 000.
- 239 **FALSE DUNGENESS HARBOR, WASH.** Reconnaissance of False Dungeness Harbor. U. S.-Coast Survey. no place, 1853. scale, 1: 30 000.
- 437 **FERROCARRIL CENTRAL DE VENEZUELA.** Plano general, parte de Caracas à Sta. Teresa. T. D. Weir. no place, no date. sheet, 14 x 20, pap. scale, 1: 100 000.
- 436 **FERROCARRIL DE LA GUAIRA À CARACAS.** Plano general. J. de Leon. no place, 1891. sheet, 19 x 21, pap. escala = 1 pulgada = 2 000 piés.
- 124 **FISHER'S ISLAND SOUND, CONN.** U. S.-Coast Survey. no place, 1847. scale, 1: 40 000.
- 202 **FLORIDA.** General reconnaissance of the western coast of Florida, 1848-51. U. S.-Coast Survey. no place, 1851(?) scale, 1: 120 000.
- 390.9 — Topographic atlas sheets of Florida. U. S.-Geological Survey. Wash., 1892-95. 7 sheets, 17 x 15, pap. scale, 1: 62 500. contour intervals, 10 ft.
- 79 **FRAMINGHAM, MASS.** Map; comp. from the best authorities and from actual surveys. H. F. Walling. Bost., 1872. scale, 100 rods to 1 in.
- 377 **FRANCE.** Carte de la navigation intérieure de la France présentant le classement du réseau navigable en lignes principales et secondaires. Ministère des Travaux Publics. Paris, 1890. sheet, 36 x 41, pap. scale, 1: 1 250 000.
- 438 — Carte des chemins de fer de la France au 31, décembre, 1880. R. Hausermann. Note: Published by the *Revue Générale des Chemins de Fer*; for text see Feb. No., 1881. Paris, 1881. sheet, 29 x 36, cl. scale, 1: 500 000.
- 498 — Cartes des Canaux d'Orléans, de Briare, et de Loing; gravées par les ordres de Son Altesse Serenissime, Monseigneur le Duc d'Orléans. Ce recueil contient une carte générale des trois canaux, 8 cartes du Canal d'Orléans, 7 cartes du Canal de Briare, 5 cartes du Canal de Loing. Latrê. no place, no date. sheets, 22 x 16, pap. no scales given.
- 336 — Map of the seat of the Franco-Prussian war. *Glasgow Weekly Herald.* Glasgow, 1870. sheet, 19 x 16, pap. no scale given.
- 334 — Same. *London Graphic.* Lond., 1870. sheet, 25 x 16, pap. no scale given.
- 131 — Tableau d'assemblage des six feuilles de la carte géologique de la France. In specteur Général des Mines. no place, 1841. 2 sheets. scale about 30 miles to 1 in.

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- 56 **FRANKLIN COUNTY, ME.** Topographical map. H. F. Walling. N. Y., 1861 scale, 1 mile to 1 in.
- 47 **FRANKLIN COUNTY, MASS.** Map; based upon the trigonometrical survey of the state. H. F. Walling. Bost., 1858. scale, 240 rods to 1 in.
- 30 **FRANKLIN COUNTY, VT.** Map of the Counties of Franklin and Grand Isle, Vt.; from actual surveys. H. F. Walling. Bost., 1857. scale, 1 : 50 000.
- 189 **GALVESTON BAY, TEX.** Preliminary sketch of Galveston Bay. U. S.-Coast Survey. ed. 2. no place, 1852. scale, 1 : 200 000.
- 389.10 **GEORGIA.** Geologic atlas of the United States: Georgia folios. U. S.-Geologic Survey. Wash., 1894-98. 1 v., 22 x 18, pap. scale, 1 : 125 000.
- 390.10 —Topographic atlas sheets of Georgia. U. S.-Geological Survey. Wash., 1886-97. 18 sheets, 17 x 15, pap. scale, 1 : 125 000. contour intervals, 50 and 100 ft.
- 165 **GERMANY.** Deutschland. E. von Sydow and Hermann Berghaus. ed. 3. Ber., 1861. scale, 1 : 2 200 000.
- 412 —Karte der deutschen Wasserstrassen unter besonderer Berücksichtigung der Tiefen- und Schleusenverhältnisse. Sympher and Maschke. Ber., 1887. sheet, 37 x 40, pap. scale, 1 : 1 250 000.
- 335 —Map of the seat of the Franco-Prussian War. *Illustrated London News.* Lond., 1870. sheet, 32 x 23, pap. no scale given.
- 334 —Same. *London Graphic.* Lond., 1870. sheet, 25 x 16, pap. no scale given.
- 333 **GIBSON COUNTY, IND.** Map of Knox and Gibson Counties, Ind. Indiana-State Geologist. no place, 1873 (?) sheet, 28 x 25, pap. no scale given.
- 26 **GRAFTON COUNTY, N. H.** Topographical map. H. F. Walling. N. Y., 1860. scale about 1 mile to 1 in.
- 145 **GRAND ISLAND, MICH.** Preliminary chart of Grand Island and its approaches, Lake Superior. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) no place, 1859. scale, 1 : 25 000.
- 30 **GRAND ISLE COUNTY, VT.** Map of the Counties of Franklin and Grand Isle, Vt.; from actual surveys. H. F. Walling. Bost., 1857. scale, 1 : 50 000.
- 491 **GRAND JUNCTION R. R.** Plan of the G. J. R. R., showing its connections with the Eastern, Maine Extension, Fitchburg, and Lowell Railroads. W. S. Dearborn. Bost., 1848. sheet, 51 x 40, pap. scale about 500 ft. to 1 in.
- 425 **GREAT BRITAIN.** Maps and sections of the railways of Great Britain. George Bradshaw. Lond., 1839. sheet, 65 x 40, cl. scale about 10 miles to 1 in.
- 175 **GREEN BAY, WIS.** Head of Green Bay and entrance to Fox River, Wis. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) Wash., 1853. scale, 1 : 30 000.
- 111 —North end of Green Bay, the islands at the entrance, and the N. W. shore of Lake Michigan. U. S.-Corps of Engineers. (Survey of the Northern and North Western Lakes.) no place. 1864. scale, 1 : 120 000.
- 109 —South end of Green Bay, the islands at the entrance thereof and part of west shore of Lake Michigan. U. S.-Corps of Engineers. (Survey of the Northern and North Western Lakes.) no place, 1864 (?) scale, 1 : 120 000.
- 22 **GREENBUSH, N. Y.** Map of the City of Albany, with villages of Greenbush, East Albany, and Bath, N. Y. E. Jacob. Albany, 1857. scale, 300 ft. to 1 in.
- 146 **GREENE COUNTY, VA.** Map; prepared by Jed Hotchkiss, Mar., 1866. U. S.-Bureau of Topographical Engineers. no place, 1875. scale, 1 mile to 1 in.
- 81 **GRENVILLE COUNTY, CANADA.** Map of the united Counties of Leeds and Grenville, Canada West; from actual surveys. H. F. Walling. Kingston, 1861. scale, 1 mile to 1 in.
- 510 **GUAIRA HARBOR.** Plano general del puerto muelle tajamar de la Guaira. G. L. Houston. Caracas, 1891. sheet, 13 x 19, pap. scale, 1 : 4 000.
- 62 **GUATEMALA.** Mapa de la Republica de Guatemala, America Central. Teodoro Paschke. Guatemala, 1889. scale, about 10 miles to 1 in.
- 283 **HAMPDEN COUNTY, MASS.** Atlas. F. W. Beers and others. N. Y., 1870. 48 pp., il., maps, 15 x 13,  $\frac{1}{2}$  mor. various scales.
- 303 —Map; based upon the trigonometrical survey of the state. H. F. Walling. Bost., 1855. scale, 1 : 47 520 or 240 rods to 1 in.
- 286 **HAMPSHIRE COUNTY, MASS.** County atlas. F. W. Beers. N. Y., 1873. 105 pp., maps, 15 x 13,  $\frac{1}{2}$  sh. no scales given.
- 74 —Map; based upon the trigonometrical survey of the state, the details from actual surveys. H. F. Walling. N. Y., 1860. scale, 240 rods to 1 in.
- 11 **HANCOCK COUNTY, ME.** Topographical map; from actual surveys. H. F. Walling. N. Y., 1860. scale about 1 mile to 1 in.
- 118 **HOLMES' HOLE HARBOR, MASS.** The Harbor of Holmes' Hole and the Harbor of Tarpaulin Cove. U. S.-Coast Survey. no place, 1847. scale, 1 : 20 000.
- 386 **HONDURAS.** Map of Honduras and San Salvador, Central America; showing the line of the proposed Honduras Inter-oceanic Ry. E. G. Squier. N. Y., 1854. sheet, 23 x 33, cl. no scale given.

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- 3 HUDSON COUNTY, N. J. Sanitary and topographical map of Hudson County, N. J.; prepared for the National Board of Health, Washington, D. C., 1880. Spielmann & Brush. N. Y., 1880. scale, about 1 000 ft. to 1 in.
- 264 HUDSON RIVER. Preliminary chart. U. S.-Coast Survey. no place, 1863. 4 sheets. scale, 1:40 000.
- 170 HUMBOLDT BAY, CAL. Preliminary survey. U. S.-Coast Survey. no place, 1851. scale, 1:30 000.
- 125 HUNTINGTON BAY, L. I. U. S.-Coast Survey. no place, 1849. scale, 1:30 000.
- 160 HURON BAY AND HURON ISLANDS, LAKE SUPERIOR; projected from a trigonometrical survey made in 1866. U. S.-Corps of Engineers. (Survey of the Northern and North Western Lakes.) no place, 1869. scale, 1:300 000.
- 103 HURON, LAKE. General Chart of Lake Huron; projected from trigonometrical surveys under the orders of Capt. G. G. Meade and from other reliable information. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) no place, 1860 (?) scale, 1:400 000.
- 107 —South end of Lake Huron and the head of the St. Clair River. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) no place, 1859 (?) scale, 1:120 000.
- 199 HYANNIS HARBOR, MASS. U. S.-Coast Survey. no place, 1850. scale, 1:30 000.
- 43 IBERVILLE COUNTY, CANADA. Map of the Counties of Shefford, Iberville, Brome, Missisquoi, and Rouville, Canada East. O. W. Gray. no place, 1864. scale about  $1\frac{1}{2}$  miles to 1 in.
- 389.11 IDAHO. Geologic atlas of the United States; Idaho folios. U. S.-Geological Survey. Wash., 1894-98. 1 v., 22 x 18, pap. scale, 1:125 000.
- 390.11 —Topographical atlas sheets of Idaho. U. S.-Geological Survey. Wash., 1892-98. 15 sheets, 17 x 15, pap. scale, 1:125 000. contour intervals, 100 ft.
- 390.12 ILLINOIS. Topographic atlas sheets of Illinois. U. S.-Geological Survey. Wash., 1890-99. 17 sheets, 17 x 15, pap. scale, 1:62 500. contour intervals, 10 and 20 ft.
- 270 INDIA. Eastern Bengal, Assam, Burmah and parts of China and Siam, mostly adapted from the maps of the Surveyor-General of India; with charts of the Irawadi River. Robert Gordon. Calcutta, 1880. 18 sheets. various scales.
- 263 INDIAN OCEAN, Indian and part of the N. and S. Pacific Oceans; from the Japan and China Sea United States Expedition, and the most recent British, French, Spanish and Dutch authorities. U. S.-Hydrographic Office. Wash., 1869. 2 sheets. no scale given.
- 267 INDIAN TERRITORY. Map of the States of Kansas and Texas, and Indian Territory; with parts of the Territories of Colorado and New Mexico. U. S.-Corps of Engineers. ed. 2. no place, 1874. scale, 1:1 500 000.
- 390.14 —Topographic atlas sheets of Indian Territory. U. S.-Geological Survey. Wash., 1898-99. 3 sheets, 17 x 15, pap. scale, 1:125 000. contour intervals, 50 ft.
- IOWA. Maps and profiles of the Iowa railroads. Iowa-Board of Railroad Commissioners. 1881. (See Ah-14, Annual report for 1881, v. 2.)
- 390.15 —Topographic atlas sheets of Iowa. U. S.-Geological Survey. Wash., 1889-99. 24 sheets, 17 x 15, pap. scale, 1:62 500. contour intervals, 20 ft.
- 95 ISLE ROYALE. Chart of Isle Royale including northwest coast of Lake Superior. U. S.-Corps of Engineers. (Survey of the Northern and North Western Lakes.) no place, 1871 (?) scale, 1:120 000.
- 235 ITALY. Carta corografica della Divisione di Genova. Torino, 1858. scale, 1:240 000.
- 12 JACKSONVILLE, FLA. Map of the City of Jacksonville and suburbs, Duval County, Fla. J. F. Le Baron. Jacksonville, 1885. scale, 360 ft. to 1 in.
- 321 JAPAN. Geological and topographical maps of the oil lands of Japan. Japan-Geological Survey. no place, 1882. scales: 1:60 000; 1:2 000 000.
- 34 JERSEY CITY, N. J. City and county map of New York, Brooklyn, Williamsburgh, Jersey City and the adjacent waters. J. H. Colton. N. Y., 1862. scale about  $\frac{1}{2}$  mile to 1 in.
- 21 —New map of New York, Brooklyn, Jersey City, etc. Gaylord Watson. N. Y., 1872. no scale given.
- 236 —Title and assessment map of that part of Jersey City which constituted the City of Bergen prior to consolidation in 1870, from the records and verified by surveys. N. Y., 1882. scale, 200 ft. to 1 in.
- 267 KANSAS. Map of the States of Kansas and Texas and Indian Territory; with parts of the Territories of Colorado and New Mexico. U. S.-Corps of Engineers. ed. 2. no place, 1874. scale, 1:1 500 000.
- 390.16 —Topographic atlas sheets of Kansas. U. S.-Geological Survey. Wash., 1891-98. 65 sheets, 17 x 15, pap. scale, 1:125 000. contour intervals, 20 and 50 ft.



## Qf—(Continued).

- 426 **KANSAS PACIFIC R. R.** Map of the route of the Southern Continental R. R., with connections from Kansas City, Mo., Ft. Smith, Ark., and Shreveport, La.; giving a general view of the recent surveys of the K. P. Ry. Co., made in 1867 and 1868, under the direction of William J. Palmer; together with compilations from Keeler's official map showing the central and northern routes to the Pacific. Wash., no date. sheet, 40 x 23, pap. scale, 60 miles to 1 in.
- 159 **KELLEY'S ISLAND.** Kelley's and Bass Islands, showing the harbors of refuge in their vicinity, being an extract from the survey of the west end of Lake Erie. U. S. Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) Wash., 1852. scale, 1:50 000.
- 503 **KENNEBEC RIVER.** Chart of the Kennebec River from Augusta to Gardiner. no place, 1837. sheet, 21 x 32, pap. scales: horizontal, about 625 ft. to 1 in.; vertical, about 12 ft. to 1 in.
- 505 — Survey of Kennebec River; drawn by N. B. Bennet. J. K. Findlay and others. no place, no date. sheet, 26 x 47, pap. scale about  $\frac{1}{4}$  mile to 1 in.
- 389.17 **KENTUCKY.** Geologic atlas of the United States: Kentucky folios. U. S.-Geological Survey. Wash., 1894-98. 1 v., 22 x 18, pap. scale, 1:125 000.
- 284 — Preliminary map of Kentucky and maps of counties, agricultural map of the Jackson Purchase and a map of the Cumberland Mountain System. Kentucky-Geological Survey. N. Y., 1891-92. 20 sheets. various scales.
- 427 — Railway map of Kentucky. E. Mendenhall and A. H. Cropper, pub. Cin., 1860. sheet, 25 x 16, cl. scale about 18 miles to 1 in.
- 390.17 — Topographic atlas sheets of Kentucky. U. S.-Geological Survey. Wash., 1886-97. 15 sheets, 17 x 15, pap. scale, 1:125 000. contour intervals, 100 ft.
- 185 **KEY WEST HARBOR, FLA.** Preliminary chart of Key West Harbor and approaches. U. S.-Coast Survey. no place, 1851. scale, 1:100 000.
- 71 **KINGS COUNTY, N. Y.** Topographical map of the Counties of Kings and Queens, N. Y. H. F. Walling. N. Y., 1859. scale, 1:40 000.
- 454 **KINGSTON, NAPANEE & WESTERN RY.** Rathbun system, comprising the Bay of Quinte Ry. & Navigation Co., the K., N. & W. Ry. Co., the Thousand Islands Ry. Co., the Deseronto Navigation Co., Ltd., and connections. Chic., no date. sheet, 11 x 8, pap. no scale given.
- 333 **KNOX COUNTY, IND.** Map of Knox and Gibson Counties, Ind. Indiana-State Geologist. no place, 1873 (?) sheet, 28 x 25, pap. no scale given.
- 298 **LABRADOR.** Chart of Newfoundland and part of the coast of Labrador. James Imray & Son, pub. Lond., 1855. no scale given.
- 249 **LAKE SHORE & MICHIGAN SOUTHERN RY.** Map of the L. S. & M. S. Ry., and its connections; comp. fr. the latest sources and showing the true location of each road. Lake Shore & Michigan Southern Ry. Co. Buffalo, 1873. no scale given.
- 110 **L'ANSE.** L'Anse, including portage entry and part of Keweenaw Bay, Lake Superior. U. S.-Corps of Engineers. (Survey of Northern and North Western Lakes.) no place, 1866. scale, 1:30,000.
- 238 **LAREDO, TEX.** Map of location between Laredo and Monterey. Mexican National Construction Co. no place, no date. scale about 8 miles to 1 in.
- 81 **LEEDS COUNTY, CANADA.** Map of the united counties of Leeds and Grenville, Canada West; from actual surveys. H. F. Walling. Kingston, 1861. scale, 1 mile to 1 in.
- 232 **LEGHORN, ITALY.** Planta geometrica della Citta' di Livorno e progetto artistico della sua sistemazione generale. no place, 1849 (?) scale, 1:5 000.
- 502 **LEHIGH COAL & NAVIGATION COMPANY'S COAL PROPERTY.** Map of coal property near Mauch Chunk, Pa. R. P. Rothwell. Phil., 1869. scale, 1 000 ft. to 1 in.
- 428 **LEHIGH VALLEY R. R.** Map of the L. V. R. R. and leased lines, with their connections; rev. by J. Oppermann. R. H. Sayre. N. Y., 1871. sheet, 21 x 13, pap. scale about 18 miles to 1 in.
- 429 — Map showing the L. V. R. R. system in the anthracite coal fields of Pennsylvania. Leo von Rosenberg, pub. N. Y., 1887. sheet, 24 x 16, pap. scale about 8 miles to 1 in.
- 14 **LEITH, SCOTLAND.** Plan of the City of Edinburgh and Town of Leith, with their environs, showing all the recent and intended improvements, lines of railway, etc. James Kirkwood & Son. no place, no date. scale about 360 ft. to 1 in.
- 196 **LITTLE EGG HARBOR.** U. S.-Coast Survey. no place, 1846. scale, 1:30 000.
- 472 **LONDON, ENG.** Improved "District Railway" map of London. ed. 2. no place, no date. sheet, 26 x 42, pap. scale about  $\frac{1}{4}$  mile to 1 in.
- 431 — London railway travelling made easy; showing at a glance what station to go to, to get to any part of London or suburbs. R. J. Cook. Lond., 1870. sheet, 32 x 24, pap. scale,  $\frac{1}{2}$  mile to 1 in.
- 479 — Map of the contours of London and its environs, showing the districts and areas supplied by the nine metropolitan water-works' companies. R. W. Mylne. Lond., 1856. sheet, 48 x 63, cl. scale, 1:17 032. contour intervals, 10 ft.

## Qf—(Continued).

- 251 — Maps of London and its environs. Great Britain-Ordnance Survey. Note: Skeleton plan; many sheets wanting. Southampton, 1848-50. 2 sheets. scale about 1 056 ft. to 1 in.
- 489 — Metropolitan District Ry. and lines in connection therewith. Lond., 1858. sheet, 20 x 15, pap. no scale given.  
— Railways terminating in London; with a description of the terminal stations, and underground railways. Samuel Rea. 1888. (See Ae-251.)
- 474 — Smith's map of proposed metropolitan railways and improvements. Smith & Son, pub. Lond., 1866. sheet, 25 x 21, pap. scale about 4 200 ft. to 1 in.
- 430 **LONDON & NORTHWESTERN RY.** Map of the L. & N. W. Ry., and its communications. Lond., 1887. sheet, 15 x 11, pap. scale about 32 miles to 1 in.
- 218 **LONG ISLAND.** Western part of the southern coast of Long Island. U. S.-Coast Survey. no place, 1851. scale, 1:80 000.
- 320 **LONG ISLAND CITY, N. Y.** Plan of Long Island City, comp. from maps of different parts of the city in existence at the time of the organization of the Commission of Streets, Roads, Avenues and Parks in May, 1871. no place, no date. scale, 1:10 000.
- 506 **LOUISIANA.** Section of Hardee's map of Louisiana; showing coast plantations below New Orleans and location of Ead's jetties at South Pass. T. S. Hardee. no place, 1877. sheet, 17 x 16, pap. scale about 6 miles to 1 in.
- 390.18 — Topographic atlas sheets of Louisiana. U. S.-Geological Survey. Wash., 1891-94. 31 sheets, 17 x 15, pap. scale, 1:62 500. contour intervals, 5 ft.
- 492 **LOUISVILLE, KY.** Map of Louisville, Ky., showing the Kentucky and Indiana Bridge and its connections. no place, 1881. sheet, 14 x 16, pap. no scale given.
- 72 **LYCOMING COUNTY, PA.** Topographical map; from actual surveys. H. F. Walling. N. Y., 1861. scale, 1 mile to 1 in.
- 70 **MACKINAC, STRAITS OF.** Straits of Mackinac with the approaches thereto from Lakes Huron and Michigan and the entrance by the Détour Passage to the St. Mary's River; from trigonometrical surveys. U. S.-Bureau of Topographical Engineers. no place. 1874 (?) scale, 1:120 000.
- 507 **MAIN RIVER.** Uebersichtsplan der Main-Canalisierung von Frankfurt bis Mainz und der Hafenanlagen zu Frankfurt-am-Main. Frankfurt-am-Main, 1885. sheet, 27 x 19, pap. scale, 1:5 000.
- 76 **MAINE.** Map of the State; from surveys made by the United States Coast Survey, from the British and American Boundary Commissioners' Survey, from the State Land Survey, and the New Brunswick Provincial Surveys; drawn on the rectangular polyconic projection, according to the United States Coast Survey Tables. H. F. Walling and J. Chace, Jr. Portland, 1862. scale, 5 miles to 1 in.
- 390.19 — Topographic atlas sheets of Maine. U. S.-Geological Survey. Wash., 1890-98. 24 sheets, 17 x 15, pap. scale, 1:62 500. contour intervals, 20 ft.
- 470 **MANCHESTER SHIP CANAL CO.** District map showing existing canals and navigations connecting with Manchester. Manchester, 1892 (?) sheet, 22 x 37, pap. scale about 2 miles to 1 in.
- 143 **MARQUETTE HARBOR, MICH.** Preliminary chart of Marquette Harbor, Lake Superior. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) no place, 1859. scale, 1:5 000.
- 343 **MARSEILLES, FRANCE.** Plan de Marseille, indiquant les travaux projetés. Marseille, 1865. sheet, 20 x 16, pap. no scale given.
- 355 **MARYLAND.** New topographical atlas of the State of Maryland and the District of Columbia, with descriptions, historical, scientific, and statistical; together with maps of the United States and Territories. S. J. Martenet, H. F. Walling and O. W. Gray. Balt., 1873. various pagings, maps, 18 x 13,  $\frac{1}{2}$  mor. various scales.
- 390.20 — Topographic atlas sheets of Maryland. U. S.-Geological Survey. Wash., 1890-99. 35 sheets, 17 x 15, pap. scale, 1:125 000. contour intervals, 20 ft.
- MASSACHUSETTS.** Geographic dictionary of Massachusetts. Henry Gannett. 1894. (See Yh-87, No. 116.)
- 280 — Official topographical map, from astronomical, trigonometrical and various local surveys. H. F. Walling and O. W. Gray, comp. no place, 1871. 100 pp., maps, 16 x 14,  $\frac{3}{4}$  mor. various scales.
- 390.21 — Topographic atlas sheets of Massachusetts. U. S.-Geological Survey. Wash., 1886-90. 60 sheets, 17 x 15, pap. scale, 1:62 500. contour intervals, 20 ft.
- 396 — Topographic map; comp. from the original sheets of a map made under the auspices of the United States and the Commonwealth of Massachusetts in 1884 to 1887. U. S.-Geological Survey. N. Y., 1889. sheet, 32 x 50, pap. scale, 1:125 000. contour intervals, 100 ft.
- 256 — Topographical map; comp. from astronomical, trigonometrical, and various local surveys; made by order of the Legislature; Simeon Borden, Superintendent. Bost., 1844. 6 sheets. scales:  $2\frac{1}{2}$  miles to 1 in., or 1:158 400; 5 miles to 1 in., or 1:316 800.

## Of—(Continued).

- 9 —Topographical map; based on the trigonometrical survey by Simeon Borden; the details from actual surveys under the direction of H. F. Walling. N. Y., 1861. scale,  $2\frac{1}{2}$  miles to 1 in.
- 176 **MAUMEE BAY.** Surveyed and drawn under the direction of Captain Geo. G. Meade, in 1857. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) no place, 1857 (?) scale, 1:30 000.
- 205 **MESSINA, N. Y.** Messina, locally known as East Syracuse; De Witt freight station on the N. Y. C. & H. R. R.; Town of De Witt. H. W. Clarke. no place, no date. scale, 400 ft. to 1 in.
- 433 **MEXICAN NATIONAL RY.** Map of the M. N. Ry., including its proposed extension and connections. no place, 1880. sheet, 27 x 36, pap. scale,  $83\frac{1}{4}$  miles to 1 in.
- 442 —Map of the M. N. Ry., showing the lines granted by the Mexican Government to the M. N. Construction Co., Palmer-Sullivan Concession. no place, 1881. sheet, 30 x 45, pap. scale, 1:3 000 000.
- 7 **MEXICO.** Karte des Nördlichen tropischen America: A new map of tropical America north of the Equator, comprising the West Indies, Central America, Mexico, New Granada and Venezuela. H. Kiepert. Ber., 1858. variable scale about 61 miles to 1 in.
- 385 —Map; showing railroads completed, proposed, and in construction. Leo Rosenberg. N. Y., 1891. sheet, 14 x 10, pap. scale about 140 miles to 1 in.
- 35 —Map of the United States, Mexico, Central America, California, Oregon, New Mexico, W. Indies, etc., with the boundaries of the several states, railroads, canals, etc. H. S. Tanner. N. Y., no date. no scale given.
- 6 —Nuevo mapa estadístico de Mexico en que se marcan los productos de las diferentes zonas, las líneas de ferrocarriles actuales y proyectadas, las líneas telegráficas cables, alturas, y poblaciones. A. K. Owen. Phil., 1884. scale about 30 miles to 1 in.
- 97 —Plano orografico de la zona recorrida por el ferro-carril Mexicano de Veracruz a Mexico. A. G. Cubas. Mexico, 1877. scale about  $6\frac{3}{4}$  miles to 1 in.
- 387 —Texas-Topolobampo Pacific R. R. and Telegraph Line, Mex. N. Y., no date. sheet, 13 x 18, pap. scale about 140 miles to 1 in.
- 439 —Transportation lines between the United States and Mexico, showing differences of elevation. no place, 1884. sheet, 23 x 17, pap. no scale given.
- 211 **MEXICO, GULF OF.** Gulf of Mexico, West Indies, and Caribbean Sea; from the most recent United States Coast Survey, Spanish and British Admiralty charts. U. S.-Hydrographic Office. Wash., 1869. 6 sheets. no scale given.
- 217 —North coast of the Gulf of Mexico; from the United States Coast Survey and the most recent authorities. U. S.-Hydrographic Office. Wash., 1870. 2 sheets. no scale given.
- 357 **MICHIGAN.** Atlas of the State, including statistics and descriptions of its topography, hydrography, climate, natural and civil history, railways, educational institutions, material resources, etc., by Alexander Winchell, C. I. Walker, Oramel Hosford, Henry M. Utley, and Ray Haddock. H. F. Walling, ed. and comp. Detroit, 1873. 162 pp., maps, 18 x 13,  $\frac{1}{2}$  mor. various scales.
- 390.22 —Topographic atlas sheets of Michigan. U. S.-Geological Survey. Wash., 1895-99. 7 sheets, 17 x 15, pap. scale, 1:62 500. contour intervals, 20 ft.
- 162 **MICHIGAN, LAKE.** North and north east end of Lake Michigan. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) no place, 1855-67. 3 sheets. various scales: 1:120 000 to 1:400 000.
- 64 **MIDDLEBOROUGH, MASS.** Map; surveyed by order of the Town. H. F. Walling. N. Y., 1855. scale, 1:24 000.
- 23 **MIDDLESEX COUNTY, N. J.** Map; from actual surveys. H. F. Walling. N. Y., 1861. scale about  $\frac{1}{2}$  mile to 1 in.
- 61 **MILWAUKEE, WIS.** Map. H. F. Walling. N. Y., 1859. scale, 1:7 920.
- 390.23 **MINNESOTA.** Topographic atlas sheets of Minnesota. U. S.-Geological Survey. Wash., 1895. sheet, 17 x 15, pap. scale, 1:62 500. contour intervals, 20 ft.
- 43 **MISSISQUOI COUNTY, CANADA.** Map of the Counties of Shefford, Iberville, Brome, Missisquoi, and Rouville, Canada East. O. W. Gray. no place, 1864. scale about  $1\frac{1}{2}$  miles to 1 in.
- 390.24 **MISSISSIPPI.** Topographic atlas sheets of Mississippi. U. S.-Geological Survey. Wash., 1893. sheet, 17 x 15, pap. scale, 1:62 500. contour intervals, 5 ft.
- 508 **MISSISSIPPI RIVER.** Chart of the head of the Passes of the Mississippi River, showing the position of the works and the changes from May, 1875, to Apr., 1878. E. L. Corthell. no place, no date. sheet, 41 x 54, cl. scale about 200 ft. to 1 in.
- 478 —Course of the River Mississippi, from the Balise to Fort Chartres, taken on an expedition to the Illinois in the latter end of the year 1765. no place, 1892. sheet, 47 x 15, pap. scale about  $14\frac{2}{7}$  miles to 1 in.
- 488 —Delta of the Mississippi, including the river to and above Forts Jackson and St. Philip and the contiguous Gulf waters and Fort St. Philip Ship Canal. U. S.-Coast and Geodetic Survey. no place, 1874 (?) no scale given.



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- 497 — Detail map of the Lower Mississippi River from the mouth of the Ohio River to the head of the Passes. Mississippi River Commission. N. Y., no date. 83 sheets, 25 x 20, cl. scale, 1 : 20 000.
- 485 — Lloyd's map of the Lower Mississippi River from St. Louis to the Gulf of Mexico; comp. from Government surveys in the Topographical Bureau, Washington, D. C. J. T. Lloyd, pub. N. Y., 1862. sheet, 39 x 53, cl. scale about 5 miles to 1 in.
- 229 — Map of the alluvial valley of the Mississippi River from the head of St. Francis Basin to the Gulf of Mexico, showing lands subject to overflow, location of levees and trans-alluvial profiles. Mississippi River Commission. no place, 1887. 8 sheets. scale, 5 miles to 1 in.
- 379 — Map of the course of the Mississippi, from the Missouri and the country of the Illinois to the mouth of this river. no place, no date. blue print, 35 x 11, pap. no scale given.
- 484 — Map of the crevasses of the Mississippi River and the overflowed portions of Arkansas, Mississippi, and Louisiana; from notes furnished by H. B. Thompson, Secretary of the Board of State Engineers of Louisiana, and from investigations up to date. New Orleans Lithographic Co., pub. New Orleans, 1882. sheet, 37 x 24, pap. scale about 12 miles to 1 in.
- 482 — Map of the Lower Mississippi River; from the mouth of the Ohio River to the head of the Passes. Mississippi River Commission. no place, 1881-97. 32 sheets, 15 x 12, cl. scale about 10 miles to 1 in.
- 404 — Map of the Mississippi River from Cairo to Donaldsonville, showing bank erosion as derived from special survey made Nov. 20th, 1891, to Mar. 20th, 1892, showing also the controlling line of levees in 1892. Mississippi River Commission. no place, 1892. 26 sheets, 15 x 24, pap. no scale given.
- 227 — Maps of Cherokee, Sam Phillips, Point Pleasant and Medley Bars, showing results of dredging operations, season of 1895. Mississippi River Commission. no place, 1896 (?) 13 sheets. scale, 200 ft. to 1 in.
- 509 — Mississippi River from St. Louis to the sea; comp. and prepared from the official reports of recent surveys made by the United States Government; from the reports of state engineers, and from other reliable sources. J. A. Ockerson and C. W. Stewart. St. Louis, 1892. 41 sheets, 8 x 14, pap. scale, 2 miles to 1 in.
- 486 — Mississippi River from the Passes to Grand Prairie, La. U. S.-Coast and Geodetic Survey. (Coast Chart No. 94.) no place, 1879. sheet, 39 x 30, pap. scale about 1: 609.33 metres.
- 499 — Preliminary map of the Lower Mississippi River from the mouth of the Ohio River to the head of the Passes. Mississippi River Commission. no place, 1881-85. 32 sheets, tab., 15 x 24,  $\frac{1}{2}$  skiv. scale, 1 mile to 1 in.
- 302 **MISSOURI.** Atlas accompanying reports of Missouri Geological Survey, 1874. Jefferson City, 1874. sheets, 15 x 13, pap. no scale given.
- 390.25 — Topographic atlas sheets of Missouri. U. S.-Geological Survey. Wash., 1887-93. 31 sheets, 17 x 15, pap. scale, 1: 125 000. contour intervals, 50 ft.
- 481 **MISSOURI RIVER.** Map; from surveys made in accordance with acts of Congress approved June 18th, 1878, and Mar. 3d, 1879, under the direction of Major Chas. R. Suter, by D. W. Wellman. U. S.-Corps of Engineers. N. Y., no date. sheets, 26 x 14, cl. scale, 1 mile to 1 in.
- 171 — The Missouri River from Ft. Benton, Mont., to Sioux City, Ia.: Charts Nos. 1-198. U. S.-Corps of Engineers. Note: Chart No. 38 wanting. no place, 1891-92. 197 sheets. scale, 1: 12 000.
- 126 **MOBILE BAY.** Entrance to Mobile Bay. U. S.-Coast Survey. no place, 1851. scale, 1: 40 000.
- 169 — Preliminary sketch of Mobile Bay. U. S.-Coast Survey. no place, 1851. scale, 1: 200 000.
- 51 **MONMOUTH COUNTY, N. J.** Map. S. N. and F. W. Beers. N. Y., 1860. scale, 200 rods to 1 in.
- 389.26 **MONTANA.** Geologic atlas of the United States: Montana folios. U. S.-Geological Survey. Wash., 1894-98. 3 v., 22 x 18, pap. scales: 1: 15 000; 1: 250 000.
- 399 — (Silver Bow Co.): Butte special map. U. S.-Geological Survey. no place, 1897. sheet, 17 x 24, pap. scale, 1: 150 000. contour intervals, 20 ft.
- 390.26 — Topographic atlas sheets of Montana. U. S.-Geological Survey. Wash., 1891-94. 16 sheets, 17 x 15, pap. scales: 1: 125 000; 1: 250 000. contour intervals, 50, 100 and 200 ft.
- 117 **MONTEREY HARBOR, CAL.** U. S.-Coast Survey. no place, 1852. scale, 1: 40 000.
- 351 **MONTREAL, QUE.** Complete map of Montreal and vicinity, 1881. Dawson Brothers, pub. Montreal, 1881. sheet, 45 x 19, pap. no scale given.
- 361 — Mount Royal: Design map. N. Y., 1877. sheet, 17 x 21, pap. no scale given.
- MONTREAL HARBOR.** Plan of part of the City of Montreal shewing as regards its present harbor, the existing piers, the improvements suggested by the Harbour Commissioners and those recommended by John C. Trautwine. Montreal, 1855 (?) sheet, 29 x 34, b. p. Cc-68, p. 199.

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- 94 **MORRISANIA, N. Y.** Map. L. D. V. Mason and G. S. Greene, Jr. no place, 1871. scale, 400 ft. to 1 in.
- 90 —Map. J. C. Bukhout and W. G. Livingston. N. Y., 1856. scale about 425 ft. to 1 in.
- 83 —Map; from actual surveys. F. W. Beers. N. Y., no date. scale, 300 ft. to 1 in.
- 317 **MOSCOW, RUSSIA.** Plan of the City of Moscow. no place, no date. scale, 1 680 ft. to 1 in.
- 325 **NANTES, FRANCE.** Plan géométrique de la Ville de Nantes. F. J. Pinson. Nantes, 1864. scale, 1:5 000.
- 75 **NANTUCKET COUNTY, MASS.** Map of the Counties of Barnstable, Dukes and Nantucket, Mass.; based upon the trigonometrical survey of the state, the details from actual surveys. H. F. Walling. Bost., 1858. scale, 1:63 360.
- 190 **NANTUCKET HARBOR, MASS.** U. S.-Coast Survey. no place, 1848. scale, 1:20 000.
- 67 **NATICK, MASS.** Map; surveyed by order of the Town. H. F. Walling. Phil., 1853. scale, 64 rods to 1 in.
- 390.27 **NEBRASKA.** Topographic atlas sheets of Nebraska. U. S.-Geological Survey. Wash., 1894-99. 22 sheets, 17 x 15, pap. scale, 1:125 000. contour intervals, 20 ft.
- 268 **NEVADA.** Map showing detailed topography of the country traversed by the reconnaissance expedition through Southern and Southeastern Nevada. U. S.-Corps of Engineers. no place, 1869. scale, 12 miles to 1 in.
- 390.28 —Topographic atlas sheets of Nevada. U. S.-Geological Survey. Wash., 1886-92. 10 sheets, 17 x 15, pap. scales: 1:125 000; 1:250 000. contour intervals, 100, 200 and 250 ft.
- 183 **NEW BEDFORD HARBOR, MASS.** U. S.-Coast Survey. no place, 1850. scale, 1:40 000.
- 390.29 **NEW HAMPSHIRE.** Topographic atlas sheets of New Hampshire. U. S.-Geological Survey. Wash., 1891-98. 6 sheets, 17 x 15, pap. scale, 1:62 500. contour intervals, 20 ft.
- 483 **NEW HAVEN HARBOR, CONN.** Map of New Haven and its harbor in the State of Connecticut. F. R. Hassler. (25th Cong., 3d Sess. House doc. No. 202.) Wash., 1839. sheet, 9 x 6, pap. scale, 1:10 000.
- 191 —U. S.-Coast Survey. no place, 1846. scale, 1:30 000.
- NEW JERSEY.** Atlas. New Jersey-Geological Survey. 1888-90. various scales. (See Yh-25, v. 4.)
- 359 —Atlas of the Metropolitan District and adjacent country; showing in a series of maps the relative geographical position, the topography, hydrography, and economic features of this area; from original surveys by J. R. Bien and C. C. Vermeule, the United States Coast and Geodetic Survey and the Geological Survey of New Jersey. Julius Bien & Co., pub. N. Y., 1891. 13 sheets, 23 x 18,  $\frac{3}{4}$  ro. no scale given.
- Geographic dictionary of New Jersey. Henry Gannett. 1894. (See Yh-87, No. 118.)
- 37 —Geological map of New Jersey; the geographical material compiled and drawn by G. M. Hopkins from the State Topographical Survey, from data furnished by the United States Coast Survey, and from official records and original surveys; based upon the United States Coast Survey Triangulation. New Jersey-Geological Survey. no place, 1868. scale, 2 miles to 1 in.
- 108 —Map of the clay district of Middlesex Co., showing location of beds of stone-ware clay, kaolin and fire clay. New Jersey-Geological Survey. N. Y., 1875. scale,  $\frac{1}{8}$  mile to 1 in.
- 135 —Northern New Jersey, showing the iron-ore and limestone districts. New Jersey-Geological Survey. N. Y., 1874. scale, 2 miles to 1 in.
- 390.30 —Topographic atlas sheets of New Jersey. U. S.-Geological Survey. Wash., 1881-99. 48 sheets, 17 x 15, pap. scale, 1:62 500. contour intervals, 10 and 20 ft.
- 413 —Topographical map of a part of Northern New Jersey; from surveys and levelings made, and local surveys corrected, by George W. Howell and C. C. Vermeule, upon a projection made by the United States Coast and Geodetic Survey. no place, 1882. sheet, 38 x 22, pap. scale, 1 mile to 1 in. contour intervals, 10 and 20 ft.
- 313 —Topographical map of Kittatinny Valley and Mountain in Sussex County and the northern part of Warren; from original surveys and levelings, based on the triangulation of the United States Coast and Geodetic Survey. New Jersey-Geological Survey. N. Y., 1886. scale, 1 mile to 1 in.
- 314 —Topographical map of the Southwestern Highlands, with the southwest portion of Kittatinny Valley; from original surveys and levelings based on the triangulation of the United States Coast and Geodetic Survey. New Jersey-Geological Survey. N. Y., 1885. scale, 1 mile to 1 in.
- 120 **NEW LONDON HARBOR, CONN.** U. S.-Coast Survey. no place, 1848. scale, 1:20 000.

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- 349 **NEW MEXICO.** Map of the Territory of New Mexico; comp. by Jno. G. Parke; assisted by Richard H. Kern, by order of Jno. Munroe, U. S. A., commanding 9th Mil. Dept., drawn by R. H. Kern, Santa Fé, N. M., 1851; constructed under general orders from J. J. Abert, Chief, Corps of Topographical Engineers. U. S.-Bureau of Topographical Engineers. N. Y., 1851. sheet, 37 x 26, pap. no scale given.
- 390.31 —Topographic atlas sheets of New Mexico. U. S.-Geological Survey. Wash., 1889-99. 16 sheets, 17 x 15, pap. scale, 1:125 000. contour intervals, 100 and 200 ft.
- 275 **NEW ORLEANS, LA.** Plan of proposed improvements for the Lake Shore front of the City of New Orleans, showing location of embankment, pumping machinery, locks, harbors, rail and shell roads and public grounds. New Orleans, 1873. scale about 500 ft. to 1 in.
- 323 —Plan of the City of New Orleans and the adjacent plantations. Carlos Trudeau. no place, no date. sheet, 22 x 16, pap. no scale given.
- 276 —Sketch of draining sections of New Orleans, showing present canals, with proposed protection levees and reservoir canals. New Orleans-City Surveyor. New Orleans, 1872. sheet, 16 x 15, pap. no scale given.
- 494 —Topographical and drainage map of New Orleans and surroundings from recent surveys and investigations. T. S. Hardee. no place, 1879. sheet, 24 x 24, pap. scale, 2 500 ft. to 1 in.
- 381 **NEW ORLEANS, OPELOUSAS & GREAT WESTERN R. R.** Map exhibiting the fixed location of the main trunk of the N. O., O. & G. W. R. R., of La., together with its proposed branches, connections and extensions. G. W. R. Bayley. New Orleans, 1859. sheet, 37 x 28, pap. scale, 20 miles to 1 in.
- NEW SOUTH WALES.** Sketch map of New South Wales showing the localities of the principal minerals. J. Taylor. 1876. (See Yh-67.)
- 315 **NEW YORK & CROTON RIVER EXTENSION R. R.** Map and profile of located line of the N. Y. & C. R. E. R. R., also of the New York, Westchester & Boston Ry. from P. M. Branch of N. Y. & Harlem R. R. to the Bronx River. W. R. Bergholz. no place, no date. scale 400 ft. to 1 in.
- 448 **NEW YORK & HARLEM R. R.** Map showing the route of the Harlem R. R. between New York and Albany and its connexion with eastern and northern railroads. N. Y., 1847. sheet, 18 x 26, pap. scale about 10½ miles to 1 in.
- 353 **NEW YORK CITY.** Atlas of the City of New York, embracing all territory within its corporate limits; from official records, private plans, and actual surveys by and under the supervision of E. Robinson and R. H. Pidgeon. N. Y., 1885. 4 pl., maps, 19 x 15, ½ mor. scales: 200 and 300 ft. to 1 in.
- 359 —Atlas of the Metropolitan District and adjacent country, showing in a series of maps the relative geographical position, the topography, hydrography, and economic features of this area; from original surveys by J. R. Bien and C. C. Vermeule, the United States Coast and Geodetic Survey and the Geological Survey of New Jersey. Julius Bien & Co., pub. N. Y., 1891. 13 sheets, 23 x 18, ¾ ro. scale, ½ mile to 1 in.
- 352 —Atlas of New York and vicinity, from actual surveys by and under the direction of F. W. Beers, assisted by A. B. Prindle and others. N. Y., 1868. sheets, tab., 18 x 15, ½ mor. various scales.
- 34 —City and county map of New York, Brooklyn, Williamsburgh, Jersey City and the adjacent waters. J. H. Colton. N. Y., 1862. scale about ½ mile to 1 in.
- 33 —Ensign, Bridgman & Fanning, pub. N. Y., 1856. scale about 1 000 ft. to 1 in.
- 86 —Galt & Hoy, pub. N. Y., 1879. no scale given.
- 407 —General index of maps filed in the Register's office, New York City, N. Y.; published with additional notes. Spielman & Brush. Hoboken, 1881. 7 + 66 pp., maps, 26 x 18, pap.
- 338 —Map of the Cities of New York, Brooklyn, Long Island City, Jersey City and Hoboken. N. Y., no date. sheet, 28 x 22, pap. scale about 2 500 ft. to 1 in.
- 473 —Map of the City of New York; showing the main line, branches, and connections of the Broadway Underground Ry. G. W. and C. B. Colton & Co., pub. N. Y., no date. map, 23 x 42, pap. no scale given.
- 290 —Map of the Harlem River and Spuyten Duyvil Creek from Ward's Island to the Hudson River, N. Y.; showing project for a covered waterway 60 ft. wide, to be built on the west line of the Harlem River, from the easterly side of Third Ave. to 165th St., New York City, and filling in between the points named so that the avenues and streets of Harlem may be extended into Morrisania; comp. and enlarged from the published War Department map of the pierhead and bulkhead lines "of both shores of the Harlem River and Spuyten Duyvil Creek." no place, 1890. scale, 400 ft. to 1 in.
- 10 —Map of the northern portion of the City of New York, comprising the 12th Ward and the new 23d and 24th Wards. Croes and Van Winkle. N. Y., 1873-74. scale about 1 000 ft. to 1 in.
- 291 —Map of the 23d Ward, New York City, from official records and surveys. F. W. Beers. Note: v. 2 wanting. N. Y., no date. 1 v., 23 x 15, ¾ ro. scale, 150 ft. to 1 in.



## Qf—(Continued).

- 48 —Map showing the high and low water mark and the original city grants of lands under water made to various parties from 1686 to 1873, extending from the Battery to Fifty-first Street, Hudson and East Rivers, New York City; also the several pier and bulkhead lines established from 1730 to 1873; comp. by Charles K. Graham, Engineer-in-Chief. New York City-Department of Docks. N. Y., 1873. scale, 300 ft. to 1 in.
- 21 —New map of New York, Brooklyn, Jersey City, etc. Gaylord Watson. N. Y., 1872. no scale given.
- 397 —New York and vicinity; surveyed in 1888-89. U. S.-Geological Survey. no place, 1894. sheet, 49 x 36, pap. scale, 1 : 62 500. contour intervals, 20 ft.
- 397a —Same; surveyed in 1887, '88, '89 and '97. no place, 1899. sheet, 49 x 36, pap. scale, 1 : 62 500. contour intervals, 20 ft.
- 374 —Plan of New York City, from the Battery to Spuyten Duyvil Creek, showing every lot and building thereon; old farm lines, street numbers at the corners of blocks, railroads, steamboat landings, bulkhead and pier lines, etc.; based on the surveys made by Randall and Blackwell, and on the special surveys made by J. F. Harrison. Matthew Dripps, pub. N. Y., 1867. pl., 24 x 19,  $\frac{3}{4}$  mor. no scale given.
- 63 —Plan of the City of New York from an actual survey. James Syne. Note: Facsimile of map of New York published in 1728. N. Y., 1874. scale about 220 ft. to 1 in.
- 133 —Plan of the City of New York in North America; surveyed in the years 1766 and 1767. B. Ratzer. no place, no date. scale about 833 $\frac{1}{3}$  ft. to 1 in.
- 206 **NEW YORK HARBOR.** Hell Gate and its approaches. U. S.-Coast Survey. no place, 1851. scale, 1 : 5 000.
- 419 —New York Bay and Harbor, N. Y. U. S.-Coast Survey. no place, 1866. scale, 1 : 80 000.
- 207 —New York entrance. U. S.-Coast Survey. no place, 1867. scale, 1 : 40 000.
- 296 **NEW YORK STATE.** Atlas of the State of New York, designed for the use of engineers, containing a map of the State and of the several counties. Stone & Clark, pub. Ithaca, 1839. 4 pp., maps, 14 x 11,  $\frac{3}{4}$  sh. scale about 2 $\frac{1}{2}$  miles to 1 in.
- 444 —Colton's new railroad and township map of the State of New York; with parts of adjoining states and Canada. G. B. Colton. N. Y., 1856-57. 2 sheets, 29 x 25, pap. scale about 16 $\frac{1}{2}$  miles to 1 in.
- 324 —Economic and geologic map of the State of New York, showing the location and mineral deposits; by Frederick J. H. Merrill. New York State-University. N. Y., 1894. scale about 14 miles to 1 in.
- 60 —Empire State. N. Y., 1861. scale about 15 miles to 1 in.
- 380 —Map of northern New York showing the route of the Adirondack Ry. N. Y., no date. sheet, 17 x 14, pap. scale about 12 miles to 1 in.
- 259 —Map of the Adirondack Wilderness and adjoining territory. New York-Forest Commissioners. no place, 1884. 6 sheets. scale about 1 mile to 1 in.
- 383 —Map showing the position of the Albany and Susquehanna R. R. in relation to the other railroads of the States of New York, Pennsylvania and Massachusetts. N. Y., 1854. sheet, 28 x 35, pap. no scale given.
- 390.32 —Topographic atlas sheets of the State of New York. U. S.-Geological Survey. Wash., 1891-99. 99 sheets, 17 x 15, pap. scale, 1 : 62 500. contour intervals, 20 ft.
- 298 **NEWFOUNDLAND.** Chart of Newfoundland and part of the coast of Labrador. James Inray & Son, pub. Lond., 1855. no scale given.
- 493 **NEWPORT, R. I.** Drainage map of the City of Newport and part of Middletown, R. I. J. P. Cotton. N. Y., 1880. sheet, 17 x 13, pap. scale about 1 000 ft. to 1 in.
- 445 **NEWPORT NEWS & MISSISSIPPI VALLEY R. R.** System of railway lines, railroad and steamship connections. Chic., 1887. sheet, 44 x 32, pap. no scale given.
- 58 **NEWTON, MASS.** Map. H. F. Walling. N. Y., 1855. scale about 1 056 ft. to 1 in.
- 495 **NICARAGUA CANAL.** Map and profile of the route for the construction of a ship canal from the Atlantic to the Pacific Ocean, across the Isthmus in the State of Nicaragua, surveyed for the American, Atlantic and Pacific Ship Canal Co. O. W. Childs. N. Y., 1852. sheet, 36 x 114 bds. scale, map, 128 chains to 1 in. profiles: horizontal, 200 chains to 1 in.; vertical, 48 ft. to 1 in.
- 271 —United States Nicaragua Survey, Western Division, from Brito to mouth of Rio Lajas; also showing Rio del Medio line and the channel for tapping the Rio Grande; comp. from surveys 1872 and 1873 and additional survey of 1880. A. G. Menocal. no place, no date. scale, 1 : 20 000.
- 368 **NÎMES, FRANCE.** Plan de la Ville de Nîmes. Liotard & Liotard. no place, no date. sheet, 18 x 24, pap. scale, 1 cm.: 100 m.
- 395 **NORFOLK, VA.** Norfolk quadrangle; surveyed in 1888-91. U. S.-Geological Survey. no place, 1898. sheet, 17 x 28, pap. scale, 1 : 125 000. contour intervals, 5 ft.

## Qf—(Continued).

- 31 **NORTH AMERICA.** American Continent: Topographical and railroad map of the United States, British possessions, West Indies, Mexico, and Central America. R. Rosa, comp. N. Y., 1867. scale about  $66\frac{2}{3}$  miles to 1 in.
- 221 —East coast of North America; from United States Coast Survey and most recent authorities. U. S.-Hydrographic Office. Note: Incomplete, Wash., 1870. no scale given.
- 7 —Karte des nördlichen tropischen America: A new map of tropical America north of the Equator, comprising the West Indies, Central America, Mexico, New Granada and Venezuela. H. Kiepert. Ber., 1858. variable scale about 61 miles to 1 in.
- 220 —North east coast of North America; from the British Admiralty and United States Coast Survey. U. S.-Hydrographic Office. Wash., 1868-72. 3 sheets. no scale given.
- 66 **NORTH BRIDGEWATER, MASS.** Map; surveyed by order of the Town. H. F. Walling and E. Whiting. Phil., 1853. scale, 1 000 ft. to 1 in.
- 92 **NORTH CAROLINA.** New map of the State of North Carolina, constructed from actual surveys, authentic public documents and private contributions. E. H. B. Brazier. Phil., 1833. scale about six miles to 1 in.
- 326 —Physiographical map of North Carolina; W. C. Kerr, State Geologist. no place, no date. sheet, 11 x 28, pap. scale about 25 miles to 1 in.
- 390.33 —Topographic atlas sheets of North Carolina. U. S.-Geological Survey. Wash., 1886-99. 15 sheets, 17 x 15, pap. scale, 1:125 000. contour intervals, 100 ft.
- 390.34 **NORTH DAKOTA.** Topographic atlas sheets of North Dakota. U. S.-Geological Survey. Wash., 1894-97. 12 sheets, 17 x 15, pap. scales: 1:62 500; 1:125 000. contour intervals, 20 ft.
- 201 **NORTH EDISTO RIVER, S. C.** Preliminary sketch. U. S.-Coast Survey. no place, 1851. scale, 1:50 000.
- 440 **NORTH PENNSYLVANIA R. R.** and its connections. Phil., 1853. sheet, 26 x 19, pap. no scale given.
- 446 **NORTH SIMCOE RY.** Map of the N. S. Ry. and its connections. Toronto, no date. sheet, 13 x 15, pap. scale, 10 miles to 1 in.
- 451 **NORTHERN PACIFIC R. R.** Map of the country tributary to the N. P. R. R.; comp. fr. English, Canadian and American official sources and original surveys. E. H. Knight. Note: This is the famous "Banana Belt" map. no place, 1871. sheet, 40 x 50, pap. no scale given.
- 447 —Map of the N. P. R. R., its branches and allied lines. no place, no date. sheet, 29 x 13, pap. scale about 20 miles to 1 in.
- 274 **NORTHWEST TERRITORY.** Map of part of the N. W. Territory, including the Province of Manitoba; showing an approximate classification of the lands. J. Johnston. Montreal, no date. scale about 50 miles to 1 in.
- 54 **NORTON, MASS.** Map; surveyed by order of the Town. H. F. Walling. Bost., 1855. scale, 80 rods to 1 in.
- 373 **NOVA SCOTIA, CANADA.** Map of the Province of Nova Scotia, including the Island of Cape Breton; comp. fr. actual and recent surveys. A. and W. MacKinlay, pub. Halifax, 1882. sheet, 31 x 40, cl.
- 365 **OCONOMOWOC, WIS.** Map of the lakes and drives around Oconomowoc. Chicago, Milwaukee & St. Paul Ry. Co. no place, no date. sheet, 16 x 22, pap. scale, 1 mile to 1 in.
- 52 **OHIO.** Map. H. F. Walling. N. Y., 1866. scale, 1:300 000.
- 452 —New map; exhibiting the sections, fractional sections, townships, cities, villages, post-offices, railroads, canals, turnpikes, and plank roads. E. Mendenhall & Co., pub. Cin., 1853. sheet, 50 x 52, bds. scale about  $5\frac{1}{2}$  miles to 1 in.
- Railroad and township map. N. Y., 1854. sheet, 23 x 30, b. p. scale about 12 miles to 1 in. Ag-6, p. 259.
- 390.35 —Topographic atlas sheets, of Ohio. U. S.-Geological Survey. Wash., 1892. sheet, 17 x 15, pap. scale, 1:125 000. contour intervals, 100 ft.
- 265 **OHIO RIVER,** between Mound City and Cairo. U. S.-Coast Survey. no place, 1864. scale about 1 920 ft. to 1 in.
- 490 **OIL CITY OIL FIELD.** Contour map of the Oil City Oil Field, Fresno Co., Cal. California-State Mining Bureau. no place, no date. sheet, 20 x 16, pap. scale about 1 400 ft. to 1 in.
- 390.36 **OKLAHOMA.** Topographic atlas sheets of Oklahoma. U. S.-Geological Survey. Wash., 1895. sheet, 17 x 15, pap. scale, 1:125 000. contour intervals, 20 ft.
- 402 **OMAHA, NEB.** Omaha and vicinity. U. S.-Geological Survey. no place, 1898. sheet, 27 x 18, pap. scale, 1:62 500. contour intervals, 20 ft.
- 216 **ONTARIO, CANADA.** Government map of part of the Huron and Ottawa Territory, Ont. Canada-Department of Crown Lands. N. Y., 1873. scale, 1:316 800.
- 328 —Postal map of the Counties of Ontario, Victoria, Durham, Northumberland and Peterborough, Ontario, Canada. Montreal, 1879. sheet, 28 x 18, pap. no scale given.

## Qf—(Continued).

- 142 **ONTONAGON HARBOR, MICH.** Preliminary chart. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) no place, 1859. scale, 1:16 000.
- 29 **ORANGE COUNTY, VT.** Map. H. F. Walling. N. Y., 1858. scale, 1:50 000.
- 449 **OREGON.** Indexed map, showing the railroads in the state. Rand, McNally & Co. Chic., 1879. sheet, 14 x 20, pap. no scale given.
- 342 —Map of Oregon and Upper California, from the surveys of John Charles Frémont and other authorities; drawn by Charles Preuss. Balt., 1848. sheet, 36 x 30, pap. scale, 1:3 000 000.
- 390.37 —Topographic atlas sheets of Oregon. U. S.-Geological Survey. Wash., 1889-98. 6 sheets, 17 x 15, pap. scales: 1:62 500; 1:125 000; 1:250 000. contour intervals, 25, 100 and 200 ft.
- 17 **OXFORD COUNTY, ME.** Map. H. F. Walling. N. Y., 1858. scale, 400 rods to 1 in.
- 179 **OYSTER BAY, L. I.** Oyster or Syosset Bay. U. S.-Coast Survey. no place, 1847. scale, 1:30 000.
- 213 **PACIFIC OCEAN.** North Pacific Ocean. U. S.-Hydrographic Office. Wash., 1869. 3 sheets. no scale given.
- 222 —South Pacific Ocean; from the American Exploring Expedition, Admiralty and Dépôt de la Marine. U. S.-Hydrographic Office. Wash., 1868. no scale given.
- 273 **PANAMA.** Carte de l'Isthme de Panama dressée d'après les documents de Garcella, Totten, Wagner, les cartes hydrographiques Anglaises et Françaises et les derniers travaux de Wyse et Reclus, lieutenants de Vau., assistés de les Ingrs. Sosa, Lacharme, etc. Paris, 1879. scale, 1:200 000.
- 462 —Map of the Isthmus of Panama representing the line of the railroad, reduced and comp. from the original survey by the Crown Surveyor, Jamaica. Panama R. R. Co. N. Y., 1857. sheet, 42 x 30, cl. scale, 8 000 ft. to 1 in.
- 450 —Proyecto de ferro-carril. George de Polignac. Note: From David, Costa Rica, to the City of Panama. Paris, no date. sheet, 22 x 9, pap. scale, 1:60 000.
- 471 **PANAMA CANAL.** Canal de Panama: Projet adopté par le Congrès International d'Etude pour le Percement de l'Isthme Américain. no place, 187-. sheet, 11 x 9, pap. scale about 12 kil. to 1 in.
- 27 —Plan and geological profile. Otto Sibeth. no place, no date. sheet, 186 x 58, pap. no scale given.
- 136 —Plan showing profile. no place, no date. sheet, 100 x 41, pap. no scale given.
- 181 **PASQUOTAUK RIVER, N. C.** U. S.-Coast Survey. no place, 1850. scale, 1:60 000.
- 356 **PELHAM BAY PARK.** Map showing topographical survey of land to be taken for Pelham Bay Park, Oct., 1885. W. J. Haskins. no place, no date. sheet, 31 x 45, pap. scale, 400 ft. to 1 in.
- PENNSYLVANIA.** Geological maps of Schuylkill, Carbon, Berks and Dauphin Counties: Topographical map of the Blue Mountain at Port Clinton. Pennsylvania-Geological Survey. 1891. various scales. (See Yh-123.)
- 300 —Map of the first and second anthracite coal fields. S. B. Fisher. Phil., 1836. sheets, 16 x 11, cl. scale, 200 perches to 1 in.
- 209 —Map of the Wyoming anthracite coal fields, Pa. R. P. Rothwell. Wilkes-Barre, Pa., 1869. scale about 1 000 ft. to 1 in.
- 24 —New and reliable map of Pennsylvania, the "Keystone State"; showing counties, townships, railroads and distances, stations, post-offices, etc. N. Y., 1869. no scale given.
- 358 —New topographical atlas; with descriptions, historical, scientific, and statistical; together with a map of the United States and Territories. H. F. Walling and O. W. Gray. Phil., 1872. various pagings, maps, 18 x 13, ½ mor. various scales.
- Report of the Secretary of Internal Affairs on the boundaries of the Commonwealth. 1887. (See Qe-92.)
- Second geological survey: Grand atlases. Contents: Div. 1, County geological maps. Div. 2, Anthracite coal fields. Div. 3, Petroleum and bituminous coal fields. Div. 4, South Mountain and Great Valley topographical maps. Div. 5, Central and South-eastern Pennsylvania. Note: Div. 1, Pt. 2; Div. 3, Pt. 2; Div. 4, Pt. 2; Div. 5, Pt. 2 wanting. (See Yh-122a.)
- 390.38 —Topographical atlas sheets of Pennsylvania. U. S.-Geological Survey. Wash., 1891-99. 38 sheets, 17 x 15, pap. scale, 1:62 500. contour intervals, 20 ft.
- 305 —Topographical map. H. F. Walling. N. Y., 1862. scale, 1:300 000.
- 18 **PENOBSCOT COUNTY, ME.** Topographical map. H. F. Walling. N. Y., 1859. scale about 1¼ miles to 1 in.
- 15 **PERRY COUNTY, OHIO.** Map. H. F. Walling. N. Y., 1859. scale, ½ mile to 1 in.
- 65 **PHILADELPHIA, PA.** Topographical map, showing water mains and street grades. Water Department. Phil., 1877. scale about ½ mile to 1 in.
- 461 **PHILADELPHIA & READING R. R.** Topographical plan and profile, with plates illustrating the bridges, stations, etc., on the line of the road. no place, 1856 (?) pl., 34 x 11, bds. various scales.



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- 28 **PICTOU COUNTY, NOVA SCOTIA.** Topographical township map; from actual surveys. H. F. Walling. Halifax, no date. scale about 1 mile to 1 in.
- 19 **PISCATAQUIS COUNTY, ME.** Map. H. F. Walling. N. Y., 1858. scale, 1 mile to 1 in.
- 42 **PLYMOUTH COUNTY, MASS.** Map. H. F. Walling. Bost., 1857. scale, 240 rods to 1 in.
- 177 **PORTAGE LAKE, MICH.** Portage Lake and River with part of Keweenaw Bay. U. S.-Corps of Engineers. (Survey of the Northern and North Western Lakes.) no place, 1865. scale, 1: 30 000.
- 248 **PORTUGAL.** Carta corographica de Portugal. F. Folque. Note: Incomplete. no place, 1862-75 (?) sheets, 28 x 40, pap. no scale given.
- 174 —Geographical, hydrographical and topographical maps; issued by the Government. Lisbon, 1841-1871. various scales.
- 25 **POUGHKEEPSIE, N. Y.** Map. B. Nichols and H. B. Stranahan. N. Y., 1867. no scale given.
- 112 **PRESQU' ILE.** Harbors of refuge: Presqu' Ile, False Presqu' Ile, and Middle Island, Lake Huron. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) no place, 1858. scale, 1: 40 000.
- 417 **PRINCE EDWARD ISLAND.** Topographical map, from actual surveys and the late coast survey by Capt. H. W. Bayfield. D. J. Lake. St. John, 1863. sheet, 53 x 76, pap. scale, 500 rods to 1 in.
- 122 **PRISONER'S HARBOR, CAL.** Reconnaissance of Prisoner's Harbor, Cal., and reconnaissance of Cuyler's Harbor, Island of San Miguel, Cal. U. S.-Coast Survey. no place, 1852. scale, 1: 20 000.
- 44 **PROVIDENCE, R. I.** Map. H. F. Walling. Providence, 1857. scale, 350 ft. to 1 in.
- 453 —Map showing the rearrangement of the railroad stations and tracks in the City of Providence, proposed by the Commissioners of the Cove Lands. S. B. Cushing. no place, 1873. sheet, 25 x 21, pap. scale, 400 ft. to 1 in.
- 262 **PRUSSIA.** Post- und Eisenbahnkarte von dem preussischen Staate und den angränzenden Ländern. Prussia-General-Postamt. Note: 5 sheets wanting. Ber., 1865. 9 sheets. scale, 1: 800 000.
- 71 **QUEENS COUNTY, N. Y.** Topographical map of the Counties of Kings and Queens, N. Y. H. F. Walling. N. Y., 1859. scale, 1: 40 000.
- 468 **QUEENSLAND.** Map; showing annual rainfall to end of 1894. Water Supply Department. Brisbane, 1894. sheet, 27 x 20, pap. scale, 69.19 English statute miles to 1° and 60 geographical miles to 1°.
- 469 —Map; showing mean annual rainfall to end of 1890. Water Supply Department. Brisbane, no date. sheet, 30 x 22, pap. scale, 69.16 English statute miles to 1° and 60 geographical miles to 1°.
- 149 **RAPPAHANNOCK COUNTY, VA.** Map; prepared by Jed Hotchkiss, Mar., 1866. U. S.-Bureau of Topographical Engineers. no place, 1875. scale, 1 mile to 1 in.
- 455 **RHEINISCHE EISENBAHN.** Uebersichtskarte der rheinschen Eisenbahn und ihrer Nachbarbahnen. Köln, no date. sheet, 25 x 15, pap. scale, 1: 720 000.
- 496 **RHINE RIVER.** Karte über den Lauf des Rheins längs der badisch-französischen Grenze nach dem Stande der Jahre 1838 und 1861 und längs der badisch-bayerischen Grenze nach dem Stande der Jahre 1817 und 1861. Baden-Oberdirektion des Wasser- und Strassen-baues. no place, 1862 (?) sheets, 11 x 8, bds. scale, 1: 50 000.
- RHODE ISLAND.** Geographic dictionary. Henry Gannett. 1894. (See Yh-87, No. 115.)
- 46 —Map of the State of Rhode Island and Providence Plantations. H. F. Walling. N. Y., 1868. no scale given.
- 390.39 —Topographic atlas sheets of Rhode Island. U. S.-Geological Survey. Wash., 1889-99. 8 sheets, 17 x 15, pap. scale, 1: 62 500. contour intervals, 20 ft.
- 187 **RICHMOND'S ISLAND HARBOR, ME.** U. S.-Coast Survey. no place, 1851 scale, 1: 20 000.
- 84 **RIVERSIDE, ILL.** General plan. Olmsted, Vaux & Co. Chic., 1869. scale, 400 ft. to 1 in.
- 147 **ROCKINGHAM COUNTY, VA.** Map; prepared by Jed Hotchkiss, Jan., 1866. U. S.-Bureau of Topographical Engineers. no place, 1875. scale, 1½ miles to 1 in.
- 43 **ROUVILLE COUNTY, CANADA.** Map of the Counties of Shefford, Iberville, Brome, Missisquoi, and Rouville, Canada East. O. W. Gray. no place, 1864. scale about 1½ miles to 1 in.
- 237 **RUSSIA.** Map. St. Petersburg, 1876. 6 sheets. scale in Russian.
- 456 —Spoorwegkaart van Rusland naar de nieuwste bronnen vervaardigd. J. Pik. Groningen, no date. 2 sheets, 32 x 27, pap. scale, 1: 2 500 000.
- 224 —Topographical map. no place, no date. scale in Russian.

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- 163 **SAGINAW BAY AND PART OF LAKE HURON.** U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) no place, 1860. scale, 1 : 120 000.
- 161 **SAGINAW RIVER.** Preliminary chart; lower reach of Saginaw River and bar in front, Saginaw Bay, Lake Huron. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) no place, 1856. scale, 1 : 10 000.
- 158 **ST. CLAIR, LAKE.** Chart. U. S.-Corps of Engineers. (Survey of the Northern and North Western Lakes.) no place, 1874 (?) scale, 1 : 50 000.
- 105 —Chart of St. Clair Flats, showing also the improvement of the mouth of the South Pass now being effected by the United States. U. S.-Bureau of Topographical Engineers. no place, 1857 (?) scale, 1 : 32 000.
- 93 **ST. CLAIR RIVER.** Chart. U. S.-Corps of Engineers. no place, 1872 (?) scale, 1 : 40 000.
- 78 **ST. FRANCIS, CANADA.** Map; from surveys of British and American Boundary Commissioners, British American Land Co., Crown Land Department and special surveys and observations. O. W. Gray. no place, 1863. scale about 1 mile to 1 in.
- 299 **ST. LAWRENCE RIVER.** Chart of the Gulf and River St. Lawrence, including the coast from Breton Island to Cape Cod and the Island and Banks of Newfoundland. J. Imray & Son, pub. Lond., 1854. no scale given.
- 114 —Charts; Nos. 1-3. U. S.-Corps of Engineers. (Survey of the Northern and North Western Lakes.) no place, 1875. scale, 1 : 30 000.
- 210 —The River and Gulf of St. Lawrence, Newfoundland, Nova Scotia and the banks adjacent; from the English Admiralty and French Marine Surveys. U. S.-Hydrographic Office. Wash., 1868. 2 sheets. no scale given.
- 344 **ST. LOUIS, MO.** Map. St. Louis, no date. sheet, 14 x 8, pap. no scale given.
- 400 —St. Louis and vicinity. U. S.-Geological Survey. no place, 1893. sheet, 18 x 28, pap. scale, 1:62 500. contour intervals, 20 ft.
- 119 **ST. MARKS RIVER, FLA.** Reconnaissance of the bar and channel of St. Marks, on the western coast of Florida. U. S.-Coast Survey. no place, 1852. scale, 1:40 000.
- 457 **ST. PETERSBURG & MOSCOW R. R.** Map and profile of the railroad. no place, no date. sheet, 26 x 39, cl. scale in Russian.
- 318 **ST. THOMAS ISLAND.** Carta da Ilha de St. Thomé. Portugal-Comissão de Cartographia. no place, 1891. scale, 1 : 150 000.
- 102 **STE. MARIE RIVER.** Charts. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) no place, 1857-58(?) scale, 1 : 40 000.
- 151 —Sketch of the navigation through East Neebish Rapids, River St. Mary. U. S.-Bureau of Topographical Engineers. Wash., 1854. scale, 1 : 15 000.
- 184 **SAN DIEGO BAY, CAL.** San Diego entrance and approaches, Cal. U. S.-Coast Survey. no place, 1851. scale, 1 : 25 000.
- 203 **SAN FRANCISCO, CAL.** City of San Francisco and its vicinity. U. S.-Coast Survey. no place, 1852. scale, 1 : 10 000.
- 173 —Map; showing the water service of Spring Valley Water-Works, distributing reservoirs, districts supplied by each, and location of principal distributing mains, contour lines showing elevation above tide water and Fire Department and Fire Patrol buildings; with plates and drawings illustrating the Spring Valley Water-Works. Dakin Publishing Co. San Fran., 1895. no scale given.
- 500 **SAN JUAN MINING REGION.** Map. Moritz Stockder. N. Y., 1881. sheet, 40 x 30, pap. scale about 1 mile to 1 in.
- 331 —Map. N. Y., no date. sheet, 19 x 12, pap. scale, 4 miles to 1 in.
- 121 **SAN PEDRO HARBOR, CAL.** Reconnaissance of San Pedro Harbor. U. S.-Coast Survey. no place, 1852. scale, 1 : 30 000.
- 101 **SANDUSKY BAY.** Chart. U. S.-Corps of Engineers. (Survey of the Northern and North Western Lakes.) no place, 1874(?) scale, 1 : 20 000.
- 192 **SANDY HOOK, N. J.** Showing the progressive changes in Sandy Hook from 1779 to 1851. U. S.-Coast Survey. no place, 1851. scale, 1:40 000.
- 241 **SANTA BARBARA, CAL.** Preliminary sketch. U. S.-Coast Survey. no place, 1853. scale, 1:20 000.
- 166 **SANTA CRUZ HARBOR.** Reconnaissance of the Harbors of Santa Cruz, San Simeon, Coxo and San Luis Obispo, Cal. U. S.-Coast Survey. no place, 1852. scale, 1:40 000.
- 198 **SAVANNAH RIVER.** Reconnaissance of the entrance of Savannah River, Ga. U. S.-Coast Survey. no place, no date. scale, 1:30 000.
- 194 —Reconnaissances of the approaches to the City of Savannah, including Front and Back Rivers. U. S.-Coast Survey. no place, 1851. scale, 1:20 000.

## Qf—(Continued).

- 288 **SEINE, DÉPARTEMENT DE LA.** Carte des exploitations minérales du Département de la Seine, avec les divisions géologiques des terrains. Gentil. Paris, 1879. 4 sheets. no scale given.
- 287 — Carte géologique cotée du Département de la Seine représentant le gypse, le calcaire grossier et la craie. Delesse. Paris, 1880. 4 sheets. scale, 1:25 000.
- 285 — Carte hydrologique du Département de la Seine. Delesse. no place, 1882. 4 sheets. scale, 1:25 000.
- 182 **SHEFFIELD ISLAND HARBOR, CONN.** Harbors of Sheffield Island and Cawkin's Island. U. S.-Coast Survey. no place, 1848. scale, 1:20 000.
- 43 **SHEFFORD COUNTY, CANADA.** Map of the Counties of Shefford, Iberville, Brome, Missisquoi, and Rouville, Canada East. O. W. Gray. no place, 1864. scale about  $1\frac{1}{4}$  miles to 1 in.
- 188 **SHIP ISLAND HARBOR, MISS.** Cat and Ship Island Harbors. U. S.-Coast Survey. no place, 1850. scale, 1:40 000.
- 243 **SHOALWATER BAY, WASH.** Preliminary chart. U. S.-Coast Survey. no place, 1853. scale, 1:80 000.
- 345 **SOUDAN.** Special large scale war map of the Soudan, extending to Suakim on the Red Sea, with enlarged plan of Khartum. George Phillip & Son, pub. Lond., 1885. sheet, 31 x 22, pap. no scale given.
- 7 **SOUTH AMERICA.** Karte des Nördlichen tropischen America: A new map of tropical America north of the Equator, comprising the West Indies, Central America, Mexico, New Granada and Venezuela. H. Kiepert. Ber., 1858. variable scale about 61 miles to 1 in.
- 410 — Map of the railways of South America and of the international trunk lines; comp. and drawn up under the patronage of the Ministry of Public Works of the Oriental Republic of Uruguay. J. J. Castro and Felix Elena. no place, 1893. sheet, 39 x 56, pap. scale, 1:4 000 000.
- 390.40 **SOUTH CAROLINA.** Topographic atlas sheets of South Carolina. U. S.-Geological Survey. Wash., 1885-92. 2 sheets, 17 x 15, pap. scale, 1:125 000. contour intervals, 50 and 100 ft.
- 390.41 **SOUTH DAKOTA.** Topographic atlas sheets of South Dakota. U. S.-Geological Survey. Wash., 1893-99. 17 sheets, 17 x 15, pap. scales: 1:62 500; 1:125 000. contour intervals, 20, 50 and 100 ft.
- 314 **SOUTHWESTERN HIGHLANDS, N. J.** Topographical map of the Southwestern Highlands, with the southwest portion of Kittatinny Valley; from original surveys and levelings based on the triangulation of the United States Coast and Geodetic Survey. New Jersey-Geological Survey. N. Y., 1885. scale, 1 mile to 1 in.
- 1 **SPAIN.** Mapa topográfico de España en escala de 1:50 000. Madrid, 1875. sheets, 27 x 34, bds.
- 294 **STATEN ISLAND, N. Y.** Atlas. J. B. Beers & Co. N. Y., 1887. sheets, 17 x 14,  $\frac{3}{4}$  mor. various scales.
- 304 — Map. H. F. Walling. N. Y., 1859. scale, 80 rods to 1 in.
- 82 **SULLIVAN COUNTY, N. H.** Topographical map. H. F. Walling. N. Y., 1860. scale, 1:40 000.
- 113 **SUPERIOR, LAKE.** Chart No. 1. U. S.-Corps of Engineers. (Survey of the Northern and North Western Lakes.) no place, 1872. scale, 1:400 000.
- 95 — Chart of Isle Royale, including northwest coast of Lake Superior. U. S.-Corps of Engineers. (Survey of the Northern and North Western Lakes.) no place, 1871 (?) scale, 1:120 000.
- 215 — Plan of the part of the north shore of Lake Superior, showing Thunder and Black Bays, etc. Canada-Department of Crown Lands. Toronto, 1873. scale, 1 mile to 1 in.
- 129 — Preliminary chart of part of Lake Superior; comprising the data obtained up to the close of field operations in 1867. U. S.-Corps of Engineers. (Survey of the Northern and North Western Lakes.) Note: Map of the eastern part of Lake Superior. no place, 1868. scale, 1:400 000.
- 130 — Preliminary chart of part of Lake Superior; comprising the data obtained up to the close of field operations in 1867. U. S.-Corps of Engineers. (Survey of the Northern and North Western Lakes.) Note: Map of the western part of Lake Superior. no place, 1868. scale, 1:400 000.
- 98 — Preliminary chart of part of Lake Superior, comprising the data obtained up to the close of field operations in 1869. U. S.-Corps of Engineers. no place, 1870. scale, 1:400 000.
- 104 — Preliminary chart of the west end of Fond du Lac of Lake Superior, embracing Superior, St. Louis and Allouez Bays and the St. Louis River to the head of navigation. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) no place, 1863. scale, 1:32 000.
- 313 **SUSSEX COUNTY, N. J.** Topographical map of Kittatinny Valley and Mountain in Sussex Co. and the northern part of Warren; from original surveys and levelings, based on the triangulation of the United States Coast and Geodetic Survey. New Jersey-Geological Survey. N. Y., 1886. scale, 1 mile to 1 in.



## Qf—(Continued).

- 458 **SWEDEN.** Railway map. C. P. Sandberg. Stockholm, 1886. sheet, 23 x 16, pap. scale about 21 miles to 1 in.
- 204 **SYRACUSE, N. Y.** City of Syracuse and Village of Geddes. H. W. Clarke. Syracuse, no date. scale, 1 200 ft. to 1 in.
- 118 **TARPAULIN COVE HARBOR, MASS.** The Harbor of Holmes' Hole and the Harbor of Tarpaulin Cove. U. S.-Coast Survey. no place, 1847. scale, 1:20 000.
- 41 **TAUNTON, MASS.** Map; made by order of the City Government, under the direction of the Committee of the City Council. H. F. Walling and O. W. Gray. Bost., 1871. scale, 1 000 ft. to 1 in.
- 154 **TAWAS HARBOR, MICH.** Preliminary chart of Tawas Harbor, harbor of refuge, Lake Huron. U. S.-Bureau of Topographical Engineers. no place, 1856. scale, 1:16 000.
- 277 **TEHUANTEPEC ISTHMUS.** Map; embracing all the surveys of the engineering and hydrographic parties and showing the proposed route of the Tehuantepec Ship Canal, its feeder and harbors. U. S.-Tehuantepec Expedition. no place, 1871. 19 sheets. scale, 1:250 000.
- 253 — Map showing the surveys and profiles made for a railway across the Isthmus of Tehuantepec. Tehuantepec Ry. Co. N. Y., 1869. scale, 16 000 ft. to 1 in.
- 463 — Maps illustrating the Isthmus of Tehuantepec. N. Y., 1852. 8 sheets, 41 x 26, cl. various scales.
- 389.42 **TENNESSEE.** Geologic atlas of the United States: Tennessee folios. U. S.-Geological Survey. Wash., 1894-98. 11 v., 22 x 18, pap. scale, 1:125 000.
- 390.42 — Topographic atlas sheets of Tennessee. U. S.-Geological survey. Wash., 1892-98. 22 sheets, 17 x 15, pap. scale, 1:125 000. contour intervals, 100 ft.
- 389.43 **TEXAS.** Geologic atlas of the United States: Texas folios. U. S.-Geological Survey. Wash., 1894-98. 1 v., 22 x 18, pap. scale, 1:125 000.
- 267 — Map of the States of Kansas and Texas and Indian Territory; with parts of the Territories of Colorado and New Mexico. U. S.-Corps of Engineers. ed. 2. no place, 1874. scale, 1:500 000.
- 480 — Maps of the country between the frontiers of Arkansas and New Mexico, embracing the section explored in 1849, '50, '51, '52. R. B. Marcy. N. Y., no date. 2 sheets, 18 x 26, 29 x 60, cl. scale about 20 miles to 1 in.
- 390.43 — Topographic atlas sheets of Texas. U. S.-Geological Survey. Wash., 1887-97. 52 sheets, 17 x 15, pap. scale, 1:125 000. contour intervals, 25 and 50 ft.
- 153 **THUNDER BAY, LAKE HURON.** U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) no place, 1858. scale, 1:40 000.
- 316 **TIMOR ISLAND.** Carta da Ilha de Timor. Portugal-Comissão de Cartographia. no place, 1890. scale, 1:750 000.
- 403 **TINTIC MINING MAP, UTAH.** U. S.-Geological Survey. no place, 1898. sheet, 30 x 18, pap. scale, 1:96 000. contour intervals, 20 ft.
- 234 **TOURS, FRANCE.** Plan général de la Ville de Tours, et de ses environs. Tours, no date. no scale given.
- 36 **ULSTER COUNTY, N. Y.** Map. ed. 2, rev. O. J. Tillson and P. H. Brink. Kingston, 1854. scale about 1 mile to 1 in.
- 393 **UNITED STATES.** Base, contour and relief maps. U. S.-Geological Survey. no place, 189-, and 1899. 8 sheets, 17 x 28, pap. scale, 111 miles to 1 in.
- Citizen's atlas of American politics, 1789-1888: A series of colored maps and charts. F. W. Hewes. 1888. (See Qc-46.)
- Dictionary of geographic positions in the United States. Henry Gannett, comp. 1895. (See Yh-87, No. 123.)
- 369 — Enlarged map of the coast from New York Harbor to Boston. no place, no date. sheet, 10 x 24, pap. scale about 12 miles to 1 in.
- 208 — General chart of the coast from Gay Head to Cape Henlopen. U. S.-Coast Survey. no place, 1852. scale, 1:400 000.
- 389 — Geologic atlas: Folios 1-48. U. S.-Geological Survey. Library Edition. Wash., 1894-98. 48 v., maps, 22 x 18, pap. scales, 1:15 000 to 1:250 000.
- 464 — Great western railway guide; exhibiting all stations with distances from each other. D. B. Cooke & Co. Chic., 1855. sheet, 26 x 39, cl. no scale given.
- 249 — Map of the Lake Shore & Michigan Southern Ry., and its connections; comp. from the latest sources and showing the true location of each road. Buffalo, 1873. no scale given.
- 134 — Map of the territory of the United States from the Mississippi River to the Pacific Ocean; originally prepared to accompany the reports of the explorations for a Pacific railroad route. U. S.-Bureau of Topographical Engineers. N. Y., 1867 (?) scale, 1:3 000 000.
- 312 — Map of the territory of the United States from the Mississippi to the Pacific Ocean; to accompany the reports of the explorations for a railroad route; comp. from authorized explorations and other reliable data, by G. K. Warren. U. S.-War Department. no place, 1857. scale, 1:3 000 000.

## Qf—(Continued).

- 35 —Map of the United States, Mexico, Central America, California, Oregon, New Mexico, W. Indies, etc., with the boundaries of the several states, railroads, canals, etc. H. S. Tanner. N. Y., no date. no scale given.
- 339 —Map of the United States, southern part, from the latest surveys. A. Lindenkohl. N. Y., 1866. sheet, 28 x 22, pap.
- 244 —Map showing the location of works and surveys for river and harbor improvement; comp. for the index to the reports of the Chief of Engineers, under the direction of Henry M. Robert. U. S.-Corps of Engineers. Wash., 1879. sheets, 32 x 24, pap. various scales.
- 214 —Maps illustrating the battle fields of the War of the Rebellion. U. S.-Corps of Engineers. Wash., 1867(?) 77 sheets. various scales.
- Maps of the New England and Middle States. G. W. Colton. Note: To accompany "History of the Railroads and Canals of the United States," v. 1, by H. V. Poor. 1860. (See Aj-28.)
- 360 —Maps showing the location of the Diplomatic and Consular offices of the United States of America, Mar. 1st, 1888. U. S.-Department of State. Wash., 1888. sheets, 23 x 19, pap.
- 8 —National map of the territory of the United States from the Mississippi River to the Pacific Ocean; made by the authority of the Secretary of the Interior at the office of the Indian Bureau, chiefly for Government purposes; comp. from authorized explorations of Pacific railroad routes, public surveys, and other reliable data from the departments of the Government at Washington, D. C. W. J. Keeler. Wash., 1867. scale, 36 miles to 1 in.
- 465 —New and complete map of all the railroads in the United States and Canada in operation and progress. H. V. Poor. N. Y., 1857. sheet, 35 x 42, cl. scale, 33½ miles to 1 in.
- 13 —New county and railroad map of the United States and of the Dominion of Canada. Gaylord Watson. N. Y., 1873. scale about 35 miles to 1 in.
- 20 —New railroad and distance map of the United States and Canada. Gaylord Watson. N. Y., 1868. scale about 36 miles to 1 in.
- 355 —New topographical atlas of the State of Maryland and the District of Columbia, with descriptions historical, scientific, and statistical; together with maps of the United States and Territories. S. J. Martenet, H. F. Walling and O. W. Gray. Balt., 1873. various pagings, maps, 18 x 13, ½ mor.
- 80 —New topographical map of the whole Dominion of Canada, with a large section of the United States; comp. from the latest and most authentic sources, with additions and corrections to date of publication. John Johnston. Montreal, 1874. scale, 27½ miles to 1 in.
- 443 —Railroad map of the New York Central lines, embracing in their through car lines, the New York Central & Hudson River, Michigan Central, Lake Shore & Michigan Southern, C., C., C., & St. L. (Big Four), Boston & Albany, Pittsburg & Lake Erie. (Four-Track Ser., No. 21.) no place, 1899. sheet, 45 x 19, pap. no scale given.
- 258 —Reconnaissance and survey of a railway route from Mississippi River, near 35th parallel, north lat., to Pacific Ocean, 1853-54 U. S.-War Department. N. Y., 1854(?) scale, 1 : 900 000.
- 245 —Reconnaissance of the western coast of the United States from Gray's Harbor to the entrance of Admiralty Inlet. U. S.-Coast Survey. no place, 1853. scale, 1 : 600 000.
- 193 —Reconnaissance of the western coast of the United States from Monterey to the Columbia River; Sheets Nos. 1-3. ed. 3. U. S.-Coast Survey. no place, 1851. 3 sheets. no scale given.
- Statistical atlas, based upon results of the Eleventh Census; by Henry Gannett. U. S.-11th Census, 1890. 1898. (See Qc-11.18.)
- Statistical atlas; comp. by Francis A. Walker. U. S.-9th Census, 1870. 1874. (See Qc-9.3.)
- 164 —Territory of the United States from the Mississippi River to the Pacific Ocean; originally prepared to accompany the reports of the explorations for a Pacific railroad route, 1865-68. U. S.-Corps of Engineers. no place, 1873(?) 4 sheets. scale, 1 : 3 000 000.
- 390 —Topographic atlas sheets of the United States. U. S.-Geological Survey. Wash., 1885-99. 1077 sheets, 17 x 15, pap. scales: 1 : 62 500 to 1 : 250 000. contour intervals, 5 to 250 ft.
- 391 —United States (Map of); comp. under the direction of Henry Gannett, Chief Topographer, by Harry King, Chief Draughtsman. U. S.-Geological Survey. N. Y., 1890. sheet, 49 x 76, pap. scale, 1 : 2 500 000.
- 392 —Same. no place, 1898. sheet, 49 x 76, pap. scale, 1 : 2 500 000.
- 403 UTAH. Tintic mining map. U. S. Geological Survey. no place, 1898. sheet, 30 x 18, pap. scale, 1 : 96 000. contour intervals, 20 ft.
- 390.44 —Topographic atlas sheets of Utah. U. S.-Geological Survey. Wash., 1898. 18 sheets, 17 x 15, pap. scale, 1 : 250 000. contour intervals, 50 and 250 ft.

## Qf—(Continued).

- 405 — Topographical and geological atlas of the district of the high plateaus of Utah. U. S.-Geographical and Geological Surveys of the Rocky Mountain Region. N. Y., 1879. sheets, 33 x 23, pap. various scales.
- 390.45 **VERMONT.** Topographic atlas sheets of Vermont. U. S.-Geological Survey. Wash., 1891-99. 9 sheets, 17 x 15, pap. scale. 1:62 500. contour intervals, 20 ft.
- 254 **VICTORIA, AUSTRALIA.** Australia-Department of Lands and Surveys. no place. 1875. scale about 12 miles to 1 in.
- 340 — Map. Melbourne, 1875. sheet, 36 x 25, pap. scale about 16 miles to 1 in.
- 49 **VIENNA, AUSTRIA.** Situationsplan von Wien, mit der Darstellung der ausgeführten Donauregulierung und der projektirten neuen Stadtanlage am neuen Stromlaufe auf den gewonnenen Baugründen. Austria-Donau-Regulierungs-Commission. Note: For explanatory text see Cb-432. Wien, 1872 (?) scale, 1:10 000.
- 32 **VIGO COUNTY, IND.** Map. H. F. Walling. N. Y., 1858. scale,  $\frac{1}{2}$  mile to 1 in.
- 389.46 **VIRGINIA.** Geologic atlas of the United States: Virginia folios. U. S.-Geological Survey. Wash., 1894-98. 7 v., 22 x 18, pap.
- 347 — Map of battle-grounds of Aug. 28th, 29th, and 30th, 1862, in the vicinity of Groveton, Prince William Co., Va.; made by the authority of the Secretary of War; surveyed in June, 1878. U. S.-Corps of Engineers. no place, 1878. sheet, 30 x 25, pap. scale,  $\frac{1}{2}$  mile to 1 in.
- 327 — South-west Virginia and contiguous territory, mineral resources and railway facilities. C. R. Boyd. Wytheville, 1886. sheet, 50 x 29, cl. scale about 6 miles to 1 in.
- 390.46 — Topographic atlas sheets of Virginia. U. S.-Geological Survey. Wash., 1889-97. 40 sheets, 17 x 15, pap. scale, 1:125 000. contour intervals, 5, 50 and 100 ft.
- 408 — Western section of map of Southwest Virginia and contiguous territory, mineral resources and railway facilities. C. R. Boyd. Wytheville, 1894. sheet, 30 x 22, pap. no scale given.
- 401 **WASHINGTON CITY, D. C.** Washington and vicinity. U. S.-Geological Survey. no place, 1895. sheet, 18 x 27, pap. scale, 1:62 500. contour intervals, 20 ft.
- 53 **WASHINGTON COUNTY, VT.** Map. H. F. Walling. N. Y., 1858. scale. 1:50 000.
- 366 **WASHINGTON STATE.** Map of the country adjacent to Puget Sound, embracing British Columbia and the counties of Western Washington. Baker, Balch & Co. Seattle, no date. sheet, 28 x 16, pap.
- 390.47 — Topographical atlas sheets of Washington. U. S.-Geological Survey. Wash., 1894-98. 4 sheets, 17 x 15 pap. scales, 1:62 500; 1:125 000. contour intervals, 25, 50 and 100 ft.
- 459 **WELLAND RY.** Map showing the extent of the connections formed by the railway uniting Lakes Erie and Ontario. Toronto, no date. sheet, 30 x 23, pap. no scale given.
- 240 **WELLFLEET HARBOR, MASS.** U. S.-Coast Survey. no place, 1853. scale, 1:50 000.
- 211 **WEST INDIES.** Gulf of Mexico, West Indies, and Caribbean Sea; from the most recent United States Coast Survey, Spanish and British Admiralty charts. U. S.-Hydrographic Office. Wash., 1869. 6 sheets. no scale given.
- 7 — Karte des Nördlichen tropischen America: A new map of tropical America north of the Equator, comprising the West Indies, Central America, Mexico, New Granada and Venezuela. H. Kiepert. Ber., 1858. variable scale about 61 miles to 1 in.
- 389.48 **WEST VIRGINIA.** Geologic atlas of the United States: West Virginia folios. U. S.-Geological Survey. Wash., 1894-98. 2 v., 22 x 18, pap.
- 390.48 — Topographic atlas sheets of West Virginia. U. S.-Geological Survey. Wash., 1886-98. 22 sheets, 17 x 15, pap. scale, 1:125 000. contour intervals, 100 ft.
- 91 **WESTCHESTER COUNTY, N. Y.** Topographical map made from surveys by the Commissioners of the Department of Public Parks of the City of New York, of that part of Westchester Co. adjacent to the City and County of New York. N. Y., 1874. scale, 1 000 ft. to 1 in.
- 73 **WINNEBAGO COUNTY, ILL.** Topographical map. T. J. L. Remington. N. Y., 1859. scale, 200 rods to 1 in.
- 354 **WISCONSIN.** Atlas, including statistics and descriptions of its history, educational institutions, geology, railroads, natural resources, and manufacturing interests. H. F. Walling, ed. and comp. Bost., 1876. 130 pp., maps, 18 x 14,  $\frac{1}{4}$  mor.
- 460 — Railroad map. A. D. Conover. no place, 1886. sheet, 36 x 29, pap. scale, 12 miles to 1 in.
- 390.49 — Topographic atlas sheets of Wisconsin. U. S.-Geological Survey. Wash., 1891-96. 27 sheets, 17 x 15, pap. scale, 1:62 500. contour intervals, 20 ft.
- WORCESTER, MASS.** Map; showing the highway grade crossings. Commission on Abolition of Grade Crossings. 1892. (See Ac-141, v. 2.)



## Qf—(Continued).

- 289 **WORCESTER COUNTY, MASS.** Atlas. F. W. Beers and others. N. Y., 1870. 99 pp., il., maps, 15 x 13,  $\frac{1}{2}$  sh. various scales.
- 16 — Map; based upon the trigonometrical survey of the state, the details from actual surveys. H. F. Walling. Bost., 1857. scale, 1 mile to 1 in.
- 372 **WORLD.** An accompaniment to Mitchell's Map of the World, on Mercator's projection; containing an index to the various countries, cities, towns, islands, etc., represented on the map. Phil., 1841. 572 pp., 9 x 5,  $\frac{1}{2}$  sh. no scale given.
- 250 — Chart of the world on Mercator's projection, showing the lines of the Tehuantepec Ry., with its connections by steamships and sailing vessels with the prominent ports of the world. N. Y., 1863. no scale given.
- 282 — Cram's standard American atlas of the world. G. F. Cram. Chic., 1888. 354 pp., maps, 17 x 12,  $\frac{3}{4}$  mor. various scales.
- 375 — Handatlas über alle Theile der Erde und über das Weltgebäude. Adolf Stieler. Gotha, 1868. 84 sheets, 14 x 9,  $\frac{3}{4}$  mor. various scales.
- 421 — Indexed atlas, containing large scale maps of every country and civil division upon the face of the globe, together with historical, descriptive, and statistical matter relative to each. Rand, McNally & Co. Chic., 1892. 581 pp., pl., maps, 23 x 15, mor. various scales.
- 2 — Neuer Handatlas über alle Theile der Erde. Heinrich Kiepert. Ber., 1857. sheets, 25 x 19, pap. various scales.
- 295 — New general atlas exhibiting the five great divisions of the globe, Europe, Asia, Africa, America, and Oceanica, with their several empires, kingdoms, states, territories and other subdivisions. Malte-Brun. Phil., 1828. 40 sheets, 13 x 10,  $\frac{3}{4}$  ro. various scales.
- 292 — New universal atlas containing maps of the various empires, kingdoms and republics of the world. Phil., 1851. 73 sheets, 16 x 13,  $\frac{3}{4}$  ro. various scales.
- 157 — Planisphero terrestre indicando as novas descobertas as colonias Europeas e as linhas maritimas das navios de vapor que fazem escala nos principaes portos de commercio. A. Vuillemin. Paris, no date. no scale given.
- 367 — School atlas to accompany Woodbridge's Rudiments of Geography: Atlas on a new plan, exhibiting the prevailing religions, forms of government, degrees of civilization and the comparative size of towns, rivers and mountains. W. C. Woodbridge. ed. 5. Hartford, 1828. sheets, 9 x 6, pap. various scales.
- 389.50 **WYOMING.** Geologic atlas of the United States: Wyoming folios. U. S.-Geological Survey. Wash., 1894-98. 1 v., 22 x 18, pap. scale, 1:125 000.
- 330 — Map. N. Y., no date. sheet, 22 x 17, pap.
- 390.50 — Topographic atlas sheets of Wyoming. U. S.-Geological Survey. Wash., 1886-99. 13 sheets, 17 x 15, pap. scales: 1:62 500; 1:125 000. contour intervals, 50 and 100 ft.
- 394 — Yellowstone Park and Northwestern Wyoming; surveyed in 1883-4-5. U. S.-Geological Survey. N. Y., no date. sheet, 35 x 25, pap. scale, 1:125 000. contour intervals, 100 ft.
- 266 **YELLOWSTONE LAKE.** Sketch of the Yellowstone Lake and the valley of the Upper Yellowstone River. U. S.-Corps of Engineers. no place, 1871 (?) scale, 1:500 000.
- 389.50 **YELLOWSTONE NATIONAL PARK.** Geologic atlas of the United States: Wyoming folios. U. S.-Geological Survey. 1894-98. scale, 1:125 000.
- 394 — Yellowstone Park and Northwestern Wyoming; surveyed in 1883-4-5. U. S.-Geological Survey. N. Y., no date. sheet, 35 x 25, pap. scale, 1:125 000. contour intervals, 100 ft.
- 137 **YMUIDEN HARBOR, NETHERLANDS.** Map showing Amsterdam's new harbour Ymuiden in connexion with other harbours. no place, no date. scale, 1:1 500 000.
- 504 **YUKON RIVER.** Map, from Fort Yukon to the sea; reconnaissance made July to Sept., 1869. C. W. Raymond and E. von Diezelski. Wash., 1871. sheet, 29 x 43, pap. scale about 16 miles to 1 in.
- 467 **ZAMBESI RIVER.** Esboço do curso do Zambeze de tete ao oceano. ed. 2. Portugal —Ministerio Marinha e Ultramar. no place, 1892. sheet, 101 x 12, pap. scale, 1:200 000.

# SURVEYING AND DRAWING.

## R

- 66 **ANEROID BAROMETER, THE**; its construction and use. (Van Nostrand's Science Ser.) N. Y., 1878. 106 pp., il., pl., 6 x 4, bds.
- APPLETONS' CYCLOPÆDIA OF DRAWING, DESIGNED AS A TEXT-BOOK** for the mechanic, architect, engineer and surveyor; comprising geometrical projection, mechanical, architectural and topographical drawing, perspective and isometry; ed. by W. E. Worthen. 1857. (See U-36.)
- 77 **BAKER, I. O.** Engineers' surveying instruments, their construction, adjustment and use. ed. 2, rev. and enl. N. Y., 1897. 9 + 391 pp., il., pl., 8 x 5, cl.
- 36 **BALLARD, ROBERT.** Solution of the Pyramid problem; or, Pyramid discoveries; with a new theory as to their ancient use. Note: A theory that the Pyramids were constructed for surveying purposes. N. Y., 1882. 109 pp., il., pl., 9 x 6, cl.
- BALTIMORE—TOPOGRAPHICAL SURVEY.** Report to the Mayor and City Council of Baltimore; 1894. 1895. (See Qe-90.)
- BEECHY, F. W.** Hydrography. 1871. (See Qe-76a, p. 13.)
- 47 **BELCHER, EDWARD.** Treatise on nautical surveying; containing an outline of the duties of the naval surveyor; with cases applied to naval evolutions, and miscellaneous rules and tables useful to the seaman or traveller. Lond., 1835. 290 pp., il., pl., maps, 10 x 6, cl.
- 44 **BOLTON, HANNAH.** Drawing from objects; being an abstract of lessons on linear drawing given at the home and colonial training schools, chiefly designed for teachers. Lond., 1850. 8 + 130 pp., il., pl., 9 x 6, cl.
- 7 **BOSTON—SCHOOL COMMITTEE.** Report of the Committee on drawing. Bost., 1874. 200 pp., pl., 9 x 6, pap.
- 50 **BRAINARD, F. R.** The sextant and other reflecting mathematical instruments, with practical hints, suggestions and wrinkles on their errors, adjustments and use. N. Y., 1891. 120 pp., il., 6 x 4, bds.
- 15 **BURT, W. A.** Key to the solar compass and surveyor's companion; comprising all the rules necessary for use in the field; also, description of the linear surveys, and public land system of the United States; notes on the barometer, suggestions for an outfit for a survey of four months, etc. Phil., 1855. 118 pp., pl., 6 x 4, mor.
- 9 **CANADA—DEPARTMENT OF PUBLIC WORKS.** Memorandum on the self-reducing Sanguet tacheometer as adapted to precision levelling in connection with a new rod; by R. Steckel. Ottawa, 1899. 2 v., pl., 10 x 6, pap.
- CARPENTER, F. D.** Geographical surveying; its uses, methods and results; by the Geographer to the Geological Commission of Brazil. (Van Nostrand's Science Ser.) 1878. (See Qe-82.)
- 6 **CEREBOTANI, LUIGI.** Distances, topographies and curved lines in any way and direction; new method, new instruments. Ber., no date. 74 pp., il., 9 x 6, pap.
- 13 **CLEVENGER, S. V.** Treatise on the method of government surveying as prescribed by the United States Congress and Commissioner of the General Land Office; with complete mathematical, astronomical and practical instructions. ed. 2, rev. N. Y., 1877. 200 pp., il., pl., 7 x 4, skiv.
- COLVIN, VERPLANCK.** Surveying instruments used on the topographical survey of the Adirondack region. 1880. (See Qe-56, Annual report, 1878, p. 71.)
- 64 **CORDEIRO, F. J. B.** Barometrical determination of heights: A practical method of barometrical levelling and hypsometry for surveyors and mountain climbers. N. Y., 1898. 28 pp., 7 x 5, mor.
- 19 **DAVIES, CHARLES.** Elements of surveying and levelling; with descriptions of the instruments and the necessary tables. N. Y., 1872. 270 + 161 pp., il., pl., 8 x 5, sh.
- 20 — Treatise on shades and shadows and linear perspective. N. Y., 1832. 157 pp., 20 pl., 10 x 6, 1/4 cf.
- DAY, JEREMIAH.** Mathematical principles of navigation and surveying, with the mensuration of heights and distances; being the fourth part of mathematics. ed. 3. New Haven, 1831. 3 + 119 pp., 3 pl., 9 x 6, b. p. Ad-225, p. 337.
- DEGOUSÉE, EDMOND, and CHARLES LAURENT.** Guide du sondeur; ou, Traité théorique et pratique des sondages. 1861. (See Da-29.)

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- 16 **EASTMAN, S.** Treatise on topographical drawing. N. Y., 1837. 68 pp., 12 pl., 9 x 5, cl.
- EATON, AMOS.** Prodromus of a practical treatise on the mathematical arts; containing directions for surveying and engineering. 1838. (See Yh9-18.)
- 45 **ECKSTEIN, CHARLES.** New method for reproducing maps and drawings. (International Exhibition at Philadelphia, 1876.) The Hague, no date. 12 pp., 7 pl., 12 x 10, pap.
- FARQUHAR, F. U.** Manner of carrying on the United States survey of the Great Lakes. no date. (See Qe-104.)
- 38 **FISH, J. C. L.** Lettering of working drawings. N. Y., 1894. unpagcd, 13 pl., 9 x 12, bds.
- FRANGENHEIM, J. M.** Ausführung perspektivischer Zeichnungen. 1885. (See V 27, Pt. 1, v. 1, p. 375.)
- 2 **FREE-HAND DRAWING:** A guide to ornamental, figure and landscape drawing; by an art student. ed. 3. N. Y., 1878. 85 pp., il., pl., 6 x 4, bds.
- GANNETT, HENRY.** Manual of topographic methods. (U. S. Geological Survey.) 1893. (See Yh-41, v. 22.)
- Results of primary triangulation. (U. S. Geological Survey.) 1894. (See Yh-87, No. 122.)
- 27 **GIBSON, ROBERT.** Treatise of practical surveying, which is demonstrated from its first principles; with alterations and amendments, adapted to the use of American surveyors. ed. 8. Phil., 1803. 8 + 288 + 152 pp., 9 x 5, sh.
- 56 **GIESELER, E. A.** Aneroid barometer, its various forms, its theory and its use; with special reference to the determination of altitudes. N. Y., 1889. 11 pp., il., 9 x 6, pap.
- 52 **GILLESPIE, W. M.** Problem in practical surveying, demonstrated by means of transversals. no place, no date. 3 pp., il., 9 x 6, pap.
- 26 —Treatise on land-surveying; comprising the theory and the practice. ed. 8. N. Y., 1866. 424 + 84 pp., il., map, 9 x 6, ½ skiv.
- 23 **GRIBBLE, T. G.** Preliminary survey and estimates. Lond., 1891. 19 + 420 pp., il., 8 pl., 7 x 4, cl.
- 18 **GUMMERE, JOHN.** Treatise on surveying, containing the theory and practice; to which is prefixed a perspicuous system of plane trigonometry, the whole clearly demonstrated and illustrated by a large number of appropriate examples, particularly adapted to the use of schools; enlarged by the addition of articles on the theodolite, levelling and topography. ed. 14, rev. Phil., 1839. 266 + 152 pp., pl., 9 x 6, cf.
- 11 **GURLEY, W., and L. E.** Manual of the principal instruments used in American engineering and surveying. ed. 15. Troy, 1869. 164 pp., il., pl., 7 x 4, cl.
- HACKLEY, C. W.** Treatise on trigonometry, plane and spherical, with its application to navigation and surveying, nautical and practical astronomy and geodesy, with logarithmic, trigonometrical and nautical tables; for the use of schools and colleges. 1860. (See Yh9-12.)
- 10 **HARDEN, J. H., and E. B.** Construction of maps in relief. no place, 1887. 23 pp., il., pl., 9 x 6, pap.
- HARRISON, A. M.** On the use of the plane-table in topographical surveying. 1866. (See Qe-80, Report, 1865, p. 203.)
- 53 **HAUPT, L. M.** Tables of scales of maps and stadia reduction tables. no place, no date. unpagcd, tab., 8 x 5, pap.
- 79 —The topographer, his instruments and methods. Phil., 1883. 247 pp., il., pl maps, 9 x 6, cl.
- 68 **HAYDEN, EVERETT.** Pilot chart of the North Atlantic Ocean. Note: A description of the construction of the chart. Phil., 1888. 28 pp., pl., maps, 10 x 6, pap.
- 76 **HEATHER, J. F.** Treatise on mathematical instruments; including most of the instruments employed in drawing, for assisting the vision, in surveying and levelling, in practical astronomy, and for measuring the angles of crystals; in which their construction and the methods of testing, adjusting and using them are concisely explained. Lond., 1849. 6 + 183 pp., il., 2 pl., 7 x 4, cl.
- 21 **IBAÑEZ E IBAÑEZ, CARLOS.** Nuevo aparato de medir bases geodesicas. Madrid, 1869. 176 pp., pl., 8 x 6, ½ mor.
- INSTITUTION OF SURVEYORS, NEW SOUTH WALES.** List of surveyors licensed to practice in New South Wales. 1899. (See Sg-3.2.)
- The Surveyor: The journal of the Institution. (See Sg-3.1.)
- 37 **JACKSON, BASIL.** Course of military surveying; including instructions for sketching in the field, plan drawing, levelling, military reconnoissance, etc.; also, a particular description of the surveying instruments commonly employed by military men in the field, with explanations of the methods of using them, and instructions for their adjustment. Lond., 1838. 16 + 310 pp., il., pl., 9 x 6, cl.



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- 14 **JOHNSON, J. B.** Manual of the theory and practice of topographical surveying by means of the transit and stadia; including secondary base-line and triangulation measurements, and the projection of maps; accompanied by reduction tables and diagrams, plates of map-lettering and topographical signs. N. Y., 1855. 10 + 111 pp., il., pl., 9 x 6, cl.
- 24 — Theory and practice of surveying; designed for the use of surveyors and engineers generally, but especially for the use of students in engineering. ed. 3. N. Y., 1887. 23 + 703 pp., il., 3 pl., 9 x 6, cl.
- 24a — Same. ed. 7, rev. and enl. N. Y., 1891. 25 + 730 pp., il., 3 pl., 9 x 6, cl.
- 24b — Same. ed. 15, rev. and enl. N. Y., 1900. 30 + 838 pp., il., 5 pl., 12 tab., 9 x 6, cl.
- 5 **JUDAH, T. D.** Tables of land areas. Niagara Falls, 1851. 4 tab., 14 x 10, cl.
- 61 **KNIBBS, G. H.** Prize essay on the nature and public utility of trigonometrical, general and cadastral survey. Sydney, 1891. 43 pp., pl., 9 x 6, pap.
- 58 **KNUDSEN, AUGUSTUS.** Triangular surveys from single stations. San Fran., 1893. 32 pp., 6 x 4, bds.
- 4 **KREUTER, FRANZ.** Das neue Tacheometer aus dem Reichenbachschen mathematisch-mechanischen Institute in München; ein Universal-Instrument für alle Feldarbeiten des Ingenieurs. Brüm, 1876. 4 + 38 pp., pl., 9 x 6, pap.
- 65 **LE BARON, J. F.** Computation of the magnetic declination and the annual change and the desirability of the establishment by the States of a true polar meridian and standard of length in each county. no place, 1886. 52 pp., 8 x 5, pap.
- 55 **LEHMAN, A. E.** Topographical models, their construction and uses. no place, 1885. 19 pp., il., 9 x 6, pap.
- LESLEY, J. P.** Report of geographical survey for the Virginia and Tennessee R. Co. 1854. (See Ae-1, p. 671.)
- LEUPOLD, JACOB.** Theatrum horizontostaticum; sive, Libellationis; oder, Schau-Platz von Wasser- oder Horizontal-Waagen. 1774. (See Ya-22, Pt. 4.)
- LIETZE, ERNST.** Modern heliographic processes: A manual of instruction in the art of reproducing drawings, engravings, manuscripts, etc., by the action of light; for the use of engineers, architects, draughtsmen, artists and scientists. 1888. (See Ze-7.)
- 57 **LOEW, SIGISMUND.** Diagram for ascertaining the height or elevation of any particular point above another, when the slope of the ground and the horizontal distance is known; being peculiarly applicable in taking topography, finding the ascent, descent and inclinations of roads, streets, etc. no place, no date. pl., 14 x 13, pap.
- MARICHAL, ARTHUR.** Manual of the curvograph; or, Patent railroad curve and tangent delineator and calculator, explaining its own use and theory. 1885. (See Ab-77.)
- 32 **MERRETT, H. S.** Practical treatise on the science of land and engineering surveying, levelling, estimating quantities, etc., with a general description of the several instruments required for surveying, levelling, plotting, etc. Lond., 1863. 8 + 317 pp., 41 pl., 10 x 7, cl.
- 78 **MERRIMAN, MANSFIELD.** Elements of precise surveying and geodesy. N. Y., 1899. 261 pp., il., 9 x 6, cl.  
— Report of the progress of the geodetic triangulation of Pennsylvania. 1886. (See Yh-123, Annual report, 1885, p. 681.)
- 34 **MERRIMAN, MANSFIELD, and J. P. BROOKS.** Handbook for surveyors. ed. 5. N. Y., 1895. 242 pp., il., 7 x 4, mor.
- 59 **MORLEY, FRED.** The moment planimeter, or integrator, and its application to civil engineering. no place, no date. 32 pp., il., 9 x 6, pap.
- NEW JERSEY—GEOLOGICAL SURVEY.** Bench-marks: Descriptions and elevations of bench-marks in New Jersey. 1888. (See Yh-25, v. 1, p. 231.)
- NEW YORK STATE—ADIRONDACK WILDERNESS SURVEY.** Report on the topographical survey of the Adirondack Wilderness of New York, by Verplanck Colvin; 2d, 7th; 1873, '78. 1874-80. (See Qe-56.)
- NEW YORK STATE—SURVEY.** Final results of the triangulation of the New York State Survey, together with a description of the methods employed. 1887. (See Qe-17, 11th Report, p. 1.)
- NEW YORK STATE—UNIVERSITY.** Report of the Regents of the University of the State of New York on the re-survey of the New York and Pennsylvania boundary line. 1878-80. (See Qe-2.)
- 63 **OHIO—SECRETARY OF STATE.** Code of rules or instructions for the government of county surveyors in the discharge of their duties. Columbus, 1882. 70 pp., il., 6 x 4, pap.
- 12 **PLANE-TABLE, THE,** and its use in topographical surveying; from the papers of the United States Coast Survey. N. Y., 1869. 79 pp., pl., map, 9 x 6, cl.
- RANKINE, W. J. M.** Of engineering geodesy; or, Surveying, levelling and setting-out. 1867. (See V-10, p. 1.)

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- 31 **RAYMOND, W. G.** Text-book of plane surveying. Contents: Pt. 1, Principal instruments and elementary operations. Pt. 2, General surveying methods. N. Y., 1896. 485 pp., il., pl., maps, 9 x 6, cl.
- 88 **REINHARDT, C. W.** The technic of mechanical drafting: A practical guide to neat, correct and legible drawing. N. Y., 1900. 36 pp., il., 10 pl., 8 x 11, cl.
- 48 **ROBSON, WILLIAM.** Grammigraphia; or, the Grammar of drawing: A system of appearance, which, by easy rules, communicates its principles and shews how it is to be presented by lines; distinguishing the real figure in nature from the appearance, or shewing the appearance by the reality. Lond., 1799. 150 pp., il., 11 x 9, bds.
- SHIELDS, J. E.** Engineering geodesy. 1877. (See V-102, p. 111.)
- 22 **SIMMS, F. W.** Treatise on the principal mathematical instruments employed in surveying, levelling and astronomy, explaining their construction, adjustments and use; with an appendix and tables. ed. 2, enl. Lond., 1836. 11 + 118 pp., il., tab., 9 x 6, bds.
- 17 —Treatise on the principles and practice of levelling, showing its application to purposes of civil engineering, particularly in the construction of roads; with Mr. Telford's rules for the same. ed. 2. Lond., 1843. 7 + 115 pp., il., pl., 9 x 6, cl.
- 51 **SOARE, W. E.** "The citometer": An instrument for setting out slope-stakes and computing the cubic contents of earthworks on railroads, canals, etc., by a newly invented system. Ottawa, 1881 (?) 4 pp., 3 pl., 8 x 5, pap.
- 29 **SOPWITH, T.** Treatise on isometrical drawing as applicable to geological and mining plans, picturesque delineations of ornamental grounds, perspective views and working plans of buildings and machinery, and to general purposes of civil engineering; with details of improved methods of preserving plans and records of subterranean operations in mining districts. Lond., 1834. 26 + 239 pp., 1 + 32 pl., 9 x 6, cl.
- 46 **STEVENSON, DAVID.** Treatise on the application of marine surveying and hydrometry to the practice of civil engineering. Edin., 1842. 13 + 173 pp., il., pl., maps, 10 x 6, cl.
- 80 **UNITED STATES—BUREAU OF NAVIGATION.** Projection tables for the use of the United States Navy; comprising a new table of meridional parts for the mercator projection, with reference to the terrestrial spheroid and the tables of the polyconic projection, as used in the United States Coast Survey, adapted to areas both of small and large extent. Wash., 1869. 236 pp., pl., 9 x 6, ¾ ro.
- UNITED STATES—COAST AND GEODETIC SURVEY.** Bibliography of geodesy. 1888. (See Qe-80, Report, 1887, p. 317.)
- 1 —Geodesy: Proceedings of the geodetic conference held at Washington, D. C., Jan. 9th to Feb. 28th, 1894; Appendix No. 9, Report for 1893. Wash., 1894. pp. 225-424, il., pl., maps, 9 x 6, pap.
- Methods and results of the United States Coast and Geodetic Survey as illustrated at the World's Columbian Exposition. 1893. (Coast and Geodetic Survey. Bulletin No. 29.) 1893. (See Y1-42, v. 2, p. 39.)
- Tables for the projection of maps, based on a polyconic development of the Clarke spheroid and computed from the equator to the pole. 1885. (See Qe-80, Report, 1884, p. 135.)
- 41 —Treatise on projections; by Thomas Craig. Wash., 1882. 14 + 247 pp., il., 11 x 9, cl.
- 35 **UNITED STATES—CORPS OF ENGINEERS.** Collection of tables and formulæ useful in geodesy and practical astronomy, including elements for the projection of maps; prepared by T. J. Lee. Wash., 1849. 14 + 94 + 95 pp., 8 x 5, ½ skiv.
- 35a —Same. ed. 2. Wash., 1853. 18 + 242 pp., 9 x 6, cl.
- 35b —Tables and formulæ useful in surveying, geodesy and practical astronomy; including elements for the projection of maps and instructions for field magnetic observations. (Professional Papers, Corps of Engineers.) ed. 3, rev. and enl. Wash., 1873. 9 + 310 pp., il., 9 x 6, cl.
- 62 —On the use of the barometer on surveys and reconnaissances, being a compendium without plates, of No. 15 of the "Professional Papers of the Corps of Engineers"; by R. S. Williamson. Wash., 1878. 49 pp., 8 tab., 9 x 6, pap.
- 81 —On the use of the barometer on surveys and reconnaissances, by R. S. Williamson. (Professional Papers, Corps of Engineers, No. 15.) Contents: Pt. 1, Meteorology in its connection with hypsometry. Pt. 2, Barometric hypsometry. N. Y., 1868. 248 pp., 31 pl., map, 12 x 10, cl.
- 82 —Practical tables in meteorology and hypsometry, being the appendix to the paper on the use of the barometer on surveys and reconnaissances; by R. S. Williamson. (Professional Papers, Corps of Engineers, No. 15, Appendix.) N. Y., 1868. 155 pp., 12 x 10, pap.
- Report upon the primary triangulation of the United States Lake Survey; by C. B. Comstock, aided by the assistants on the survey. 1882. (See Qe-72.)

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- 25 **UNITED STATES—GENERAL LAND OFFICE.** Instructions to the surveyors general of public lands of the United States, for those surveying districts established in, and since the year 1850; containing, also, a manual of instructions to regulate the field operations of deputy surveyors. Wash., 1871. 70 pp., pl., 9 x 6, cl.
- 28 — Manual of surveying instructions for the survey of the public lands of the United States and private land claims. Wash., 1894. 236 pp., pl., maps, 9 x 6, cl.
- 8 **UNITED STATES—GEOLOGICAL SURVEY.** Summary of the primary triangulation executed by the United States Geological Survey between the years 1882 and 1894; by Henry Gannett. Wash., 1896. pp. 877-910, 11 x 8, pap.
- 60 **UNITED STATES—HYDROGRAPHIC OFFICE.** Memoranda on running surveys, with remarks on chronometer errors and rates; by E. R. Knorr. Wash., 1872. 21 pp., 9 x 6, pap.
- 67 **UNITED STATES—ORDNANCE OFFICE.** Description of the telemeter (télémètre de poche): An instrument for the rapid measurement of distances invented by Capt. A. Gautier and recommended for experimental trial by the Board of Officers which convened Mar. 16th, 1870. (Ordnance Memoranda, No. 12.) Wash., 1872. 13 pp., pl., 9 x 6, pap.
- VICTORIAN INSTITUTE OF SURVEYORS.** Intercolonial conference of surveyors: Report and proceedings. 1892. (See Sg-4.2.)
- Transactions and proceedings. (See Sg-4.1.)
- 43 **VIOLLET-LE-DUC, E. E.** Learning to draw; or, the Story of a young designer; tr. fr. the French by Virginia Champlin. N. Y., 1886. 5 + 324 pp., il., 8 x 5, cl.
- 54 **VON GELDERN, OTTO.** The cyclotomic transit: Description of a novel surveying instrument. San Fran., 1895. 7 pp., il., 9 x 6, pap.
- WARE, W. R.** Study of architectural drawing in the school of architecture. 1896. (See Ye-118.)
- 49 **WEINER, JOSEF.** Vorlegeblätter für den Unterricht im Maschinenzeichnen an Gewerbeschulen und gewerblichen Fortbildungsschulen. Wien, no date. 20 pl., 26 x 20, ½ mor.
- 33 **WERNER, C.** Die Tacheometrie und deren Anwendung bei Tracestudien. Wien, 1873. 6 + 95 pp., pl., 9 x 6, bds.
- 39 **WHITTOCK, NATHANIEL.** Oxford drawing book; or, the Art of drawing and the theory and practice of perspective, in a series of letters containing progressive information on sketching, drawing and colouring landscape scenery, animals and the human figure; with a new method of practical perspective. new ed. Lond., 1825. 6 + 159 pp., pl., 9 x 11, ½ skiv.
- 30 **WILLIAMS, J. B.** Practical geodesy; comprising chain surveying and the use of surveying instruments, levelling and tracing of contours; together with trigonometrical, colonial, mining and maritime surveying; with new chapters on railway, parish and estate surveying. ed. 2. Lond., 1846. 20 + 330 pp., il., pl., 9 x 6, bds.
- 40 **WILME, B. P.** Handbook for mapping, engineering and architectural drawing. Lond., 1846. 8 + 69 pp., il., pl., 11 x 9, ½ mor.
- 3 **WING, C. B.** Freehand lettering for working drawings. no place, 1892. unpagcd, 6 x 8, pap.
- WOODWARD, R. S.** Formulas and tables to facilitate the construction and use of maps. 1889. (See Yh-87, No. 50.)
- 84 **WRIGHT, C. H., and C. B. WING.** Manual of bridge drafting. Stanford University, Cal., 1896. 214 pp., pl., 12 x 9, cl.



# SOCIETY PUBLICATIONS.

## SOCIETY PUBLICATIONS—NORTH AMERICA.

### Sa1 CANADA.

- 2.1 **ASSOCIATION OF DOMINION LAND SURVEYORS.** Report of proceedings at the annual meeting; 4th-8th; 1887-91. Note: No. 6 (1889) wanting. Ottawa, 1887-91. 4 v., il., 9 x 6, unbound.
- 3.1 **ASSOCIATION OF PROVINCIAL LAND SURVEYORS OF ONTARIO.** Proceedings at the annual meeting; 1st-6th; 1886-91. Toronto, 1886-91. 6 v., il., 9 x 6, unbound.
- 4.3 **CANADIAN INSTITUTE.** Annual report; 1886-94. Note: Report, 1889-90 wanting. Toronto, 1888-94. 7 v., il., 10 x 6, unbound.
- 4.4 — Appeal to the Canadian Institute on the rectification of Parliament; together with the conditions on which the Council of the Institute offers to award one thousand dollars for prize essays. Sandford Fleming. Toronto, 1892. 176 pp., 10 x 7, pap.
- 4.5 — Canadian Journal; 1857-59 (new ser., v. 3-4). Toronto, 1858-59. 3 v. in 2, il., 8 x 6, ¾ sh.
- 4.2 — Proceedings; 1884-90, '97-98 (ser. 3, v. 2-7; new ser., v. 1). Note: New ser., v. 1, No. 3 wanting. Toronto, 1884-98. 7 v., 10 x 7, unbound.
- 4.1 — Transactions; 1890-99 (v. 1-6). Toronto, 1890-99. 4 v. in 11, il., 10 x 7, unbound.
- 7.1 **CANADIAN MINING INSTITUTE.** Journal; 1898-1900 (v. 1-3). Ottawa, 1898-1900. 3 v., il., pl., 9 x 6, unbound.
- 5.4 **CANADIAN SOCIETY OF CIVIL ENGINEERS.** Address of President at the annual meeting; 1898. no place, 1898. 1 v., 9 x 6, pap.
- 5.3 — Charter, by-laws, and list of members; 1887-93, '96-97, '99-1900. Montreal, 1887-1900. 11 v., 9 x 6, pap.
- 5.2 — Report of annual meeting; 1892-96, '99. Montreal, 1892-99. 6 v., 9 x 6, pap.
- 5.1 — Transactions; 1887-98 (v. 1-12). Montreal, 1887-99. 12 v., 9 x 6, unbound.
- 6.1 **ENGINEERING SOCIETY OF THE SCHOOL OF PRACTICAL SCIENCE,** Toronto. Papers; 1885-1900 (Nos. 1-13). Toronto, 1887-1900. 13 v., il., 9 x 6, pap.
- 8.1 **GEOGRAPHICAL SOCIETY OF QUEBEC.** Transactions; 1893-97. Note: Text in English and French. Quebec, 1897. 1 v., il., pl., por., 9 x 6, pap.
- 9.1 **NOVA SCOTIAN INSTITUTE OF SCIENCE.** Proceedings and transactions; 1882-98 (v. 6-9). Halifax, 1882-98. 4 v., 9 x 6, unbound.
- 10.1 **QUEBEC ASSOCIATION OF ARCHITECTS.** Mr. Baillairgé's address on the occasion (Oct. 2d, 1895) of his vacating the Presidency of the Society. Quebec, 1895. 74 pp., 9 x 6, pap.
- 1.1 **ROYAL SOCIETY OF CANADA.** Transactions and proceedings; 1882-98 (ser. 1, v. 1-12; ser. 2, v. 1-4). Montreal, 1883-98. 17 v. in 16, 12 x 9, 10 x 7, cl.

### Sa2 MEXICO.

- 2.1 **ASOCIACION DE INGENIEROS Y ARQUITECTOS DE MÉXICO.** Anales; 1888-97 (v. 1-6). México, 1888-97. 6 v., il., 9 x 6, pap.
- 1.1 **SOCIEDAD CIENTÍFICA "ANTONIO ALZATE."** Memorias y revista; 1891-99 (v. 5-12). Note: v. 6, Nos. 7, 8 (1891-92); v. 7, Nos. 7, 8 (1892-93); v. 10, Nos. 5-12 (1896-97) wanting. México, 1891-99. 8 v., 9 x 6, unbound.

### Sa3 UNITED STATES.

- 116.1 **ALABAMA INDUSTRIAL AND SCIENTIFIC SOCIETY.** Proceedings; 1891-98 (v. 1-8). Note: v. 1, No. 1 (1891); v. 2 (1892) wanting. Tuscaloosa, 1892-99. 8 v., 9 x 6, unbound.
- 30.1 **AMERICAN ACADEMY OF ARTS AND SCIENCES.** Proceedings; May, 1877-87 (v. 13-22). Bost., 1878-87. 10 v. in 15, 9 x 6, pap.

**Sa3 UNITED STATES—(Continued).**

- 29.2 **AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.** Constitution, list of meetings, committees and members for the twenty-seventh meeting to be held at St. Louis, Mo., Aug., 1878. Salem, 1878. 48 pp., 10 x 6, pap.
- 29.1 —Proceedings; 1871, '85, '87-96 (v. 20, 34, 36-45). Salem, 1872-97. 12 v., 10 x 7, pap., cl.
- Proceedings; sixth meeting, 1851. Wash., 1852. 1 v., pl., tab., 9 x 6, b. p. Nd-1, p. 751.
- 29.3 —Report of the Committee on Weights, Measures and Coinage. Salem, 1875. pp. 19-25, 9 x 6, pap.
- 167.1 **AMERICAN ASSOCIATION OF INVENTORS AND MANUFACTURERS.** Proceedings and addresses: Celebration of the beginning of the second century of the American patent system, at Washington City, D. C., Apr. 8th, 9th, 10th, 1891. Wash., 1892. 5 + 554 pp., 9 x 6, cl.
- 46.1 **AMERICAN BOILER MANUFACTURERS' ASSOCIATION.** Proceedings of the annual convention; 7th; 1895. St. Louis, 1895. 1 v., il., 9 x 6, pap.
- 25.1 **AMERICAN CHEMICAL SOCIETY.** Journal; 1879-81 (v. 1-3). Note: v. 2, Nos. 4, 6; v. 3, Nos. 7-12 wanting. N. Y., 1879-81. 3 v., 9 x 6, unbound.
- 83.1 **AMERICAN CRANBERRY GROWERS' ASSOCIATION.** Proceedings of the annual convention; 16th-17th; 1885-86. Trenton, 1885-86. 2 v., 9 x 6, pap.
- 83.2 —Proceedings of the annual meeting; 1885-86. Trenton, 1885-86. 2 v., il., 9 x 6, pap.
- AMERICAN FINE ARTS SOCIETY.** Annual report and list of members. 1899. (See Sa3-80.1.)
- 125.2 **AMERICAN GAS LIGHT ASSOCIATION.** Address of Theobald Forstall, President, delivered at the eleventh annual meeting of the Association, held in New York City, Oct. 17th, 1883. no place, no date. 8 pp., 9 x 6, pap. no title-page.
- 125.1 —Officers and members; 1884. N. Y., 1884. 1 v., 10 x 8, pap.
- 125.3 —Report of the proceedings of the annual meeting; 5th-6th; 1877-78. N. Y., 1879. 2 v. in 1, il., 9 x 6, cl.
- 23.1 **AMERICAN GEOGRAPHICAL SOCIETY.** Address (of the President) at the annual meeting; 1875. N. Y., 1875. 1 v., 9 x 6, pap.
- 23.2 —Bulletin; 1876-77, No. 5; 1878, No. 4; 1880, No. 4; 1881, No. 2; 1882, No. 2; 1885, Nos. 4-5; 1886, Nos. 1-2; 1889, No. 4. N. Y., 1877-89. 10 v. in 8, pl., maps, 9 x 6, unbound.
- 23.3 —Journal; Jan.-June, 1859 (v. 1, Nos. 1-6). no place, 1859. 1 v., pl., maps, 9 x 7, ½ skiv.
- 33.2 **AMERICAN INSTITUTE OF ARCHITECTS.** Constitution and by-laws; 1868, '76. no place, 1872-77. 2 v., 7 x 5, pap.
- 33.1 —Proceedings of the annual convention; 1st-33d; 1867-99. Note: Proceedings for 1889 contain the proceedings of the Western Association of Architects; Proceedings; 4th-10th. 25th-26th (1870-76, '91-92) wanting. N. Y., 1867-99. 24 v. in 21, 12 x 9, 10 x 7, cl., pap.
- 33.4 —Report of A. J. Bloor, Delegate of the New York Chapter, to the twenty-fifth annual convention of the Institute, held in Boston, Oct. 28th, 29th and 30th, 1891. N. Y., 1891. 32 pp., 6 x 4, pap.
- 33.3 —Souvenir of the 28th annual convention of the American Institute of Architects to be held at the American Fine Arts Building, New York, Oct. 15th, 16th, 17th, 1894. N. Y., 1894. 55 + 96 pp., il., 11 x 8, pap.
- AMERICAN INSTITUTE OF ARCHITECTS, BROOKLYN CHAPTER.** Annual report and list of members. 1899. (See Sa3-80.1.)
- 4.2 **AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS.** Historical sketch of its organization and work; catalogue of members and publications, Dec. 1st, 1892. N. Y., 1892. 45 pp., pl., 9 x 6, pap.
- 4.3 —Rules. N. Y., 1884. 5 pp., 9 x 6, pap.
- 4.1 —Transactions; 1884-99 (v. 1-16). Note: Contains constitution and list of members. N. Y., 1884-99. 16 v. in 13, il., por., pl., 9 x 6, ½ mor., cl.
- 3.5 **AMERICAN INSTITUTE OF MINING ENGINEERS.** Bulletin; No. 1. N. Y., 1899. 1 v., 9 x 6, pap.
- 3.3 —Guide to Baltimore, with an account of the geology of its environs. Note: Prepared for the use of the Institute at its Baltimore meeting, Feb., 1892. Balt., 1892. 11 + 139 pp., pl., maps, 7 x 5, cl.
- 3.4 —Iron district of Michigan. Note: Published by the Centennial Committee. Phil., 1876. 5 pp., 9 x 6, pap. no title-page.
- 3.2 —Officers, members, rules, etc.; 1885-99. Note: 1888 wanting. Phil., 1885-99. 14 v., 9 x 6, pap.
- 3.1 —Transactions; 1871-98 (v. 1-28). N. Y., 1873-99. 28 v., il., pl., 9 x 6, ½ mor.
- 21.1 **AMERICAN INSTITUTE OF THE CITY OF NEW YORK.** Annual report; 5th-32d (1846-71). Note: Report, 1851-60, '70 wanting. Albany, 1847-72. 15 v., 9 x 6, cl.
- 84.1 **AMERICAN IRON AND STEEL ASSOCIATION.** Annual statistical report; containing complete statistics of the iron and steel and related industries of the

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- United States; also, a brief review of their present condition; also, statistics of the iron and steel industries of foreign countries; 1867-96. Note: Report, 1868-70, '72-73 wanting. Phil., 1868-97. 26 v., 9 x 6, pap.
- 84.2 — Bulletin (bi-weekly); 1867-99 (v. 1-33). Note: v. 2-5 (1868-71) wanting. Phil., 1867-99. 29 v., 15 x 10, unbound.
- 84.12 — Causes of our national prosperity. Phila., 1879 (?) 7 pp., 9 x 6, pap.
- 84.11 — Duty on steel rails: Authentic statistics which end all controversy. (Tariff Tract No. 5, 1890.) Phil., 1890 (?) 4 pp., 9 x 6, pap. no title-page.
- 84.10 — Hold the fort: A collection of fresh facts and arguments in support of the policy of protection to home industry. Phil., no date. 32 pp., 9 x 6, pap. no title-page.
- 84.9 — Metal schedule of the tariff act of 1890, compared with the old tariff law; with index. Phil., 1890. 20 pp., 9 x 6, pap.
- 84.8 — Mr. Wood's tariff bill: A good bill for England; favorable comments by the English press; respectfully submitted to the serious attention of the American Congress. no place, no date. 8 pp., 9 x 6, pap. no title-page.
- 84.7 — Our foreign commerce since 1861. (Tariff Tract No. 5, 1880.) Phil., 1880 (?) 4 pp., 9 x 6, pap. no title-page.
- 84.6 — Question of tariff revision: A letter in reply to a circular letter dated July 17th, 1885, from Daniel Manning, Secretary of the Treasury; with an appendix. Phil., 1885. 43 pp., 9 x 6, pap.
- 84.5 — The revival: Reasons for the belief that national prosperity is returning; extracts from the speech of President Hayes at St. Paul, Sept. 5th, 1878, etc. Phil., no date. 32 pp., 9 x 6, pap. no title-page.
- 84.4 — Who are benefited by protection? An editorial article in the Bulletin of the American Iron and Steel Association, Aug. 11th, 1880. (Tariff Tract No. 2, 1880.) Phil., 1880 (?) 4 pp., 9 x 6, pap. no title-page.
- 84.3 — Who is Augustus Mongredien? An editorial article in the Bulletin of the American Iron and Steel Association, July 24th, 1880. (Tariff Tract No. 4, 1880.) Note: A discussion of the policy of free trade. Phil., 1880 (?) 12 pp., 9 x 6, pap. no title-page.
- 159.1 **AMERICAN METRIC BUREAU.** Membership. Note: Duties and privileges of members. no place, no date. unpag., 6 x 4, pap. no title page.
- 109.1 **AMERICAN METROLOGICAL SOCIETY.** Bulletin; 1874, '78. N. Y., 1874-78. 2 v., 9 x 6, pap.
- 109.2 — Memorial; praying for the passage of an act permitting and requiring the use of the metric denominations of weights and measures in the custom-houses of the United States. no place, no date. 1 p., 14 x 8, pap. no title-page.
- 87.2 **AMERICAN PAPER AND PULP ASSOCIATION.** Constitution, officers, committees, members, historical sketch; 1897-98. N. Y., 1898. 1 v., 9 x 6, cl.
- 87.1 — Report of proceedings at the meeting; 21st; 1898. no place, 1898. 1 v., il., 9 x 6, cl.
- 22.1 **AMERICAN PHILOSOPHICAL SOCIETY.** Proceedings; 1873-June, '76 (v. 13-14, 16). Phil., 1873-76. 3 v., il., pl., 9 x 6, unbound.
- 22.2 — Transactions; 1863 (new ser., v. 12, Pt. 3). Phil., 1863. 1 v., 12 x 10, pap.
- 81.1 **AMERICAN PIG IRON MANUFACTURERS' ASSOCIATION.** Annual convention; 1872. Phil., 1872. 1 v., 9 x 6, pap.
- 81.2 — Proceedings and statistics; June, 1872, Feb., '73. Phil., 1872-73. 2 v., il., 9 x 6, pap.
- 65.2 **AMERICAN PUBLIC HEALTH ASSOCIATION.** Journal (quarterly); 1896-97 (v. 2-3). Note: v. 1, Pt. 3; v. 2, Pt. 3-4 (July, 1896, July, Oct., '97) wanting. Concord, 1896-97. 2 v., 10 x 6, unbound.
- 65.1 — Public health: Reports and papers presented at the meetings of the Association; 1873-93 (v. 1-19). Note: v. 18 (1892) wanting. N. Y., 1875-94. 18 v., il., 9 x 6, cl.
- 88.1 **AMERICAN RAILWAY ASSOCIATION.** Proceedings; Apr. 14th, 1886-Oct. 13th, '98 (v. 1-2). Note: Appendix to v. 1 contains proceedings of the General Time Convention (1872-85) and the Southern Railway Time Convention (1877-85). N. Y., no date. 2 v., 11 x 8,  $\frac{1}{2}$  mor.
- 114.1 **AMERICAN RAILWAY ENGINEERING AND MAINTENANCE-OF-WAY ASSOCIATION.** Constitution and list of charter members. Cin., 1899. 1 v., 8 x 5, pap.
- 155.1 **AMERICAN RAILWAY MASTER MECHANICS' ASSOCIATION.** Report of proceedings of the annual convention; 1st-18th; 1868-85. Note: 4th report wanting. Cin., 1870-85. 15 v., 9 x 6, pap.
- 32.1 **AMERICAN SOCIAL SCIENCE ASSOCIATION.** Journal of social science; containing the transactions of the American Association; 1869-73 (Nos. 1-5). N. Y., 1869-73. 5 v., 9 x 6, pap.
- 106.1 **AMERICAN SOCIETY FOR THE ENCOURAGEMENT OF ARTS, MANUFACTURES AND COMMERCE, New York City.** Constitution and by-laws. N. Y., 1875. 1 v., 9 x 5, pap.
- 27.1 **AMERICAN SOCIETY FOR THE PREVENTION OF CRUELTY TO ANIMALS.** Annual report; 33d-34th; 1898-99. N. Y., 1899-1900. 2 v., il., 9 x 6, pap.



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- 1.8 **AMERICAN SOCIETY OF CIVIL ENGINEERS.** Address of the President at the annual convention; 1899. N. Y., 1899. 1 v., 9 x 6,  $\frac{3}{4}$  mor.  
—Address of W. J. McAlpine on assuming the chair after his election as President of the Society, Sept. 2d, 1868. no place, 1868. 11 pp., 9 x 6, b. p. Dc-442, p. 1.
- 1.5 —American Society of Civil Engineers and its future: A paper, portions of which were read Apr. 25th, 1877. W. M. Roberts. no place, 1877. 31 pp., 10 x 8, p. pap. no title-page. manuscript.
- 1.10 —Bulletin; Nos. 1-69; Apr., 1892-Dec., '95. Note: No. 56 wanting. no place, 1892-95. 68 v., 9 x 6, pap.
- 1.6 —Colorado: Some answers to questions likely to be asked by the members of the American Society of Civil Engineers during their visit to Denver, on the occasion of their annual convention, July 2d, 1886. Denver Society of Civil Engineers. Denver, 1886. 139 pp., pl., maps, 9 x 6, pap.
- 1.3 —Constitution and list of members; 1897. Note: Subsequent to 1897, the Constitution and list of members is bound with the Proceedings of the Society. N. Y., 1897. 1 v., 9 x 6, cl.
- 1.9 —Documents in reference to the general adoption of the twenty-four hour notation on the railways of America; submitted at the annual meeting of the Society, New York, Jan. 19th, 1887. Ottawa, 1887. 49 pp., 8 x 5, pap.
- 1.4 —Historical sketch of the American Society of Civil Engineers. Chas. Warren Hunt. N. Y., 1897. 92 + 6 pp., por., pl., 9 x 6, mor.
- 1.7 —Index to the library; Pt. 1, Railroads. N. Y., 1881. 188 pp., 9 x 6, pap.
- 1.6 —Objects of interest in Philadelphia, for visitors to the thirty-first annual convention of the Society at Cape May, N. J., June 27th-30th, 1899. Phil., 1899. 31 pp., maps, 7 x 4, cl.
- 1.2 —Proceedings (monthly except June and July); Nov., 1873-Dec., '99 (v. 1-25). N. Y., 1876-99. 25 v. in 16, 9 x 6,  $\frac{1}{2}$  mor.
- 1.6 —Proceedings and papers of the fourth annual convention of the Society held in Chicago, June 5th and 6th, 1872. N. Y., 1872. 169 pp., il., pl., 9 x 6, cl.
- 1.1 —Transactions; 1868-June, 1900 (v. 1-43). N. Y., 1872-99. 43 v. in 44, il., 9 x 6,  $\frac{1}{2}$  mor.
- 1.1a —Same; Index; v. 1-34. N. Y., 1890-96. 3 v., 9 x 6,  $\frac{1}{2}$  mor., pap.
- 38.3 **AMERICAN SOCIETY OF IRRIGATION ENGINEERS.** Annual; 1892-93. Denver, 1894. 1 v., il., 9 x 6, pap.
- 38.2 —Quarterly; Jan., Apr., 1895 (v. 2. Nos. 1-2). Denver, 1895. 1 v., il., 9 x 6, unbound.
- 38.1 —Transactions; Jan., 1897 (v. 2, No. 3). Denver, 1897. 1 v., il., 9 x 6, unbound.
- 2.2 **AMERICAN SOCIETY OF MECHANICAL ENGINEERS.** Catalogue, officers, members and rules; 1st-21st; 1880-1900. Note: Nos. 2-3, 7, 9, 11, 13-14, 16, 17 (1881-82, '86, '88, '90, '92-93, '95, '96) wanting. N. Y., 1880-1900. 15 v., 9 x 6, pap.
- 2.3 —President's address; 1898. N. Y., 1898. 1 v., 9 x 6, pap.
- 2.1 —Transactions; 1880-99 (v. 1-20). N. Y., 1880-99. 20 v., il., pl., tab., 9 x 6,  $\frac{1}{2}$  mor.
- 41.1 **AMERICAN SOCIETY OF RAILROAD SUPERINTENDENTS.** Proceedings of the meeting; 18th-25th; 1889-95. Note: Nos. 19, 23-24 (1890, Oct., '93-94) wanting. N. Y., 1890-96. 5 v., il., 10 x 7, pap.
- 153.1 **AMERICAN TRAIN DISPATCHERS' ASSOCIATION.** Proceedings of the annual meeting; 1st-2d; 1884-85. Buffalo, 1884-85. 2 v., 8 x 5, pap.
- 6.3 **AMERICAN WATER-WORKS ASSOCIATION.** Constitution and by-laws; together with proceedings of first annual session held at St. Louis, Mo., Mar. 29th, 30th and 31st, 1881. Hannibal, 1881. 40 pp., 6 x 3, pap.
- 6.4 —Impending dangers to health and life from abuse of water in North America: Abstract of a report by a Committee appointed by the Association to memorialize the President and Congress for laws protecting public sources of water supply pure for the people. no place, 1899. 15 pp., 9 x 6, pap.
- 6.1 —Report of proceedings of the annual meeting; 2d-20th; 1882-1900. Note: Report No. 8 (1888) wanting. Hannibal, 1882-1900. 18 v., il., 9 x 6, pap.
- 6.2 —Souvenir of the convention of the Association at Philadelphia, Apr. 14th-17th, 1891. no place, no date. pl., 5 x 7, cl.
- 66.1 **ANTHRACITE COAL OPERATORS' ASSOCIATION.** Association letter; Sept., 1897-Dec., '99. N. Y., 1897-99. 3 v., 10 x 6, unbound.
- ARCHITECTURAL LEAGUE OF NEW YORK.** See New York Architectural League.
- 50.1 **ARKANSAS SOCIETY OF ENGINEERS, ARCHITECTS AND SURVEYORS.** Transactions; 1887-89 (v. 1-3). Little Rock, 1887-90. 3 v., il., 9 x 6, pap.
- 80.1 **ART SOCIETIES OF NEW YORK.** Year book; 1898-99. N. Y., 1899. 1 v., il., 10 x 7, cl.
- 7.1 **ASSOCIATION OF CIVIL ENGINEERS OF CORNELL UNIVERSITY.** Transactions; 1892-1900 (v. 1-8). Ithaca, 1893-1900. 8 v., il., 9 x 6, pap.

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**ASSOCIATION OF COUNTY SURVEYORS AND CIVIL ENGINEERS OF THE State of Indiana.** See Indiana Engineering Society.

**ASSOCIATION OF COUNTY SURVEYORS AND CIVIL ENGINEERS OF THE State of Ohio.** See Ohio Society of Surveyors and Civil Engineers.

- 5.1 **ASSOCIATION OF ENGINEERING SOCIETIES.** Journal (monthly); 1891-98 (v. 1-21). Phil., 1881-98. 21 v., il., 9 x 6, 1½ mor.
- 37.1 **ASSOCIATION OF ENGINEERS OF VIRGINIA.** Transactions; July, 1891-Mar., '93 (No. 2). Roanoke, 1893. 1 v., il., 9 x 6, pap.
- 45.2 **ASSOCIATION OF RAILWAY SUPERINTENDENTS OF BRIDGES AND BUILDINGS.** Constitution and by-laws, and directory of officers. Concord, 1896. 15 pp., 6 x 4, pap.
- 45.3 —Directory of members. no place, 1895. 7 pp., 9 x 6, pap. no title-page.
- 45.1 —Proceedings of the annual convention; 2d-8th; 1892-98. Concord, 1892-98. 7 v., il., 9 x 6, pap.
- 34.1 **BOSTON SOCIETY OF CIVIL ENGINEERS.** Annual address of the President; 1889. no place, 1889. 1 v., 9 x 6, pap.
- 34.2 —By-laws. Newton, 1875. 9 pp., 6 x 4, pap.
- 34.5 —Constitution and by-laws and list of members; 1850-1900. Note: 1882-84, '86, '89, '93, '97 wanting. Bost., 1880-1900. 14 v., 9 x 6, pap.
- 34.3 —Historical address; by Desmond Fitzgerald; read before the Society at the celebration of its semi-centennial, Nov. 11th, 1898. no place, 1898. 13 pp., 9 x 6, pap.
- 34.4 —Library and the system of cataloguing: Report of the Committee on the Library, presented to the Society, Mar. 17th, 1897. Bost., 1897. 28 pp., pl., 9 x 6, pap.
- 34.7 —Metric system of weights and measures: Report of a committee of the Society. Note: A committee appointed for the purpose of interesting other organizations in the adoption of the metric system. no place, 1875 (?) 7 pp., 9 x 6, pap.
- 34.6 —Proceedings; Sept., 1879-June, '81. Bost., 1881. 1 v., il., 9 x 6, unbound.
- 34.9 —Report of the Committee on the Metric System of Weights and Measures; Mar., 1884; Oct., '84; Mar., '86; Mar., '88; Apr., '94. N. Y., 1884-94. 5 v., il., 9 x 6, pap.
- 34.8 —Report of the Standing Committee on the Metric System of Weights and Measures, and accompanying letters, presented at the annual meeting, Mar. 19th, 1879. no place, 1879. 11 pp., il., 10 x 6, pap. no title-page.
- 62.1 **BROOKLYN ENGINEERS' CLUB.** Proceedings, constitution and by-laws, with list of members; 1897. Brooklyn, 1898. 1 v., il., 9 x 6, cl.
- 154.1 **BROTHERHOOD OF LOCOMOTIVE ENGINEERS.** Minutes of the grand international division at their annual session; 1866. Rochester, 1866. 1 v., 9 x 6, pap.
- 28.1 **CALIFORNIA ACADEMY OF SCIENCES.** Bulletins; 1884-87 (v. 1-2). San Fran., 1884-87. 2 v., 9 x 6, unbound.
- 28.2 —Memoirs; 1888 (v. 2, Nos. 1-2). San Fran., 1888. 1 v., 12 x 10, unbound.
- 28.3 —Occasional papers; 1890-99 (v. 1-6). San Fran., 1890-99. 6 v., 10 x 6, pap.
- 28.4 —Proceedings; 1873-96 (ser. 1, v. 5-7; ser. 2, v. 1-6). Note: v. 7, Pt. 2 wanting. San Fran., 1873-96. 12 v. in 9, il., 10 x 7, pap.
- 54.1 **CENTRAL RAILWAY CLUB.** Proceedings of the meeting; 1893-99. Note: Proceedings. Sept., 1897 wanting. Buffalo, 1893-99. 7 v., 9 x 6, unbound.
- 131.2 **CHICAGO CITIZENS' ASSOCIATION.** Constitution, by-laws and list of members; 1885, '90, '98. Cleveland, 1885-98. 3 v., 7 x 4, cl., pap.
- 91.2 —Lakes and Gulf waterway: A brief. L. E. Cooley. Chic., 1888. 85 pp., il., 7 x 4, pap.
- 131.4 —Proceedings of the Civil Engineers Convention. no place, 1885. 8 pp., 9 x 6, pap.
- 91.1 —Report of the Main Drainage Committee; 1880, '85. Chic., 1880-85. 2 v., 9 x 6, pap.
- CIVIL ENGINEERS' CLUB OF THE NORTHWEST.** See Western Society of Engineers.
- 162.1 **COLORADO SCIENTIFIC SOCIETY.** Artesian wells of Denver: A report by a special committee of the Society. Denver, 1884. 41 pp., 9 x 6, pap.
- 52.1 **CONNECTICUT CIVIL ENGINEERS AND SURVEYORS ASSOCIATION.** Proceedings of the meetings; 1885-1900. Note: 1897-99 wanting. New London, 1885-1900. 15 v., il., 9 x 6, pap.
- 129.2 **DENVER SOCIETY OF CIVIL ENGINEERS.** List of members, constitution and by-laws, and President's annual address; 1892, '90, '93. no place, 1882-93. 3 v., 8 x 5, pap.
- 129.1 —Transactions; 1890-91 (v. 1-4). Denver, 1890-92. 4 v. in 3, il., 9 x 6, pap.
- 89.1 **DETROIT ENGINEERING SOCIETY.** Constitution, by-laws and list of members. no place, 1899. 1 v., 5 x 2, ro.

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- 107.1 **DEUTSCH-AMERIKANISCHER TECHNIKER-VERBAND.** Jahresbericht. Statuten und Mitgliederliste; 1885-86, '99. N. Y., 1886-99. 2 v., 9 x 6, pap.
- 107.2 — Mitteilungen (bi-monthly); Oct., 1898-Aug., '99 (v. 4). N. Y., 1898-99. 1 v., il., 9 x 6, unbound.
- 8.2 **ENGINEERING ASSOCIATION OF THE SOUTH.** Proceedings; 1898-99 (v. 9-10). Note: v. 9. Nos. 1, 2, 7 (Feb., Apr., Dec., 1898) wanting. Nashville, 1898-99. 2 v., il., pl., 9 x 6, unbound.
- 8.1 — Transactions; 1889-98. Nashville, 1891-98. 8 v., pl., 9 x 6, pap.
- 130.2 **ENGINEERING ASSOCIATION OF THE SOUTHWEST.** Constitution. Nashville, no date. 15 pp., 7 x 5, pap.
- 42.1 **ENGINEERING SOCIETY OF COLUMBIA UNIVERSITY.** Transactions; 1898-98. N. Y., 1894-98. 3 v., il., 10 x 7, cl.
- 95.1 **ENGINEERS AND ARCHITECTS CLUB OF LOUISVILLE.** Selected papers; 1896. no place, 1896. 1 v., 9 x 6, pap.
- 134.2 **ENGINEERS AND SURVEYORS OF THE STATE OF PENNSYLVANIA.** Proceedings of the convention; 1880. Phil., 1881. 1 v., 9 x 6, pap.
- 137.3 **ENGINEERS' CLUB OF CINCINNATI.** Address of the President at the annual meeting; 1888-89. Cin., 1888-89. 2 v., 9 x 6, pap.
- 137.2 — Secretary's report; 1896-99. no place, 1896-99. 4 v., 9 x 6, pap. no title-page.
- 136.3 **ENGINEERS' CLUB OF KANSAS CITY.** List of members; 1887-90. Kansas City, 1887-90. 4 v., 8 x 5, pap.
- 9.3 **ENGINEERS' CLUB OF PHILADELPHIA.** Directory, constitution and by-laws; containing officers, committees, members' names and addresses, etc.; 1895-1900. Note: 1896 wanting. Phil., 1895-1900. 5 v., 5 x 3, ro.
- 9.2 — Objects of interest to engineers and others, in and about Philadelphia. Phil., 1893. 109 pp., maps, 7 x 4, cl.
- 9.1 — Proceedings (quarterly); 1879-98 (v. 1-15). Phil., 1880-98. 15 v., il., 9 x 6, ½ mor.
- 9.4 — Report of the Committee on the Metric System of Weights and Measures, Apr., 1878. Phil., 1878. 3 pp., 9 x 6, pap.
- 43.6 **ENGINEERS' CLUB OF ST. LOUIS.** Annual address, by the retiring President; 1893. no place, 1893. 1 v., 9 x 6, pap.
- 43.2 — Bulletin: Annual reports of officers and committees, addresses at the annual dinner, constitution, by-laws, list of officers and members, and programme; 1870, '89, '90, '97-98. St. Louis, 1870-98. 5 v., 9 x 6, 7 x 4, pap.
- 43.3 — Local engineering data for St. Louis. St. Louis, 1893. 52 pp., tab., 7 x 5, cl.
- 43.7 — Proposed change of plan in the execution of all river and harbor improvements: The organization of a civil bureau of harbor and waterways; arguments on the Cullom-Breckinridge Bill. St. Louis, 1888. 19 pp., 9 x 6, pap.
- 43.1 — Transactions; Mar., 1871, Apr., '74. no place, 1871-74. 2 v., il., 9 x 6, pap. no title-page.
- 47.1 **ENGINEERS' SOCIETY OF WESTERN NEW YORK.** Transactions; 1895-96 (v. 1, Nos. 1-8). Note: No. 3 wanting. Buffalo, 1895-97. 1 v., il., 9 x 6, unbound.
- 10.2 **ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA.** Charter, by-laws and list of members; 1884, '88. Pittsburg, 1884-88. 2 v., 9 x 6, pap.
- 10.4 — Final report of Committee on Roads, with draft of proposed road act. Pittsburg, 1891. 30 pp., 9 x 6, pap.
- 10.3 — Index to the library; prepared by the Librarian under direction of the Committee on Library, 1882-83. Pittsburg, 1883. 74 pp., 9 x 6, pap.
- 10.1 — Proceedings; 1880-99 (v. 1-15). Note: v. 2-3 (July, 1882-87) wanting. Pittsburg, 1882-99. 13 v., il., 9 x 6, unbound.
- 10.5 — Report of the Committee on Natural Gas. no place, 1884. pp. 331-359, 10 x 7, pap. no title-page.
- 70.2 **FIELD COLUMBIAN MUSEUM.** Annual report of the Director to the Board of Trustees; Sept., 1894-99. (Report Ser.) Chic., 1895-99. 5 v., il., 9 x 6, pap.
- 70.1 — Historical and descriptive account of the Museum. (Pub. 1, v. 1, No. 1.) Chic., 1894. 90 pp., il., pl., 9 x 6, pap.
- FINE ARTS FEDERATION OF NEW YORK.** See New York Fine Arts Federation.
- 11.7 **FRANKLIN INSTITUTE.** Competitive tests of dynamo-electric machines: Report of a special committee, appointed by the President of the Franklin Institute. Phil., 1885. 65 pp., il., 8 tab., 9 x 6, pap.
- 11.4 — General report of the Chairman of the Committee on Exhibitions. (International Electrical Exhibition, 1884.) Phil., 1885. 54 pp., 6 pl., 9 x 6, pap.
- 11.2 — Index to the Journal of the Franklin Institute, including the Franklin Journal, for the one hundred and twenty volumes from 1826 to 1885; arranged according to subjects and authors. Phil., 1890. 416 pp., 9 x 6, ¾ sh.



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- 11.1 —Journal: 1826-June, '99 (v. 1-147). Note: Title of v. 1-4 reads "Franklin Journal"; v. 5-30 called *New Ser.*; v. 31-130 called *Third Ser.* Since 1891 the volumes have been numbered consecutively, beginning with v. 1 in 1826. Prior to 1891 they were numbered consecutively under each series. Phil., 1826-99. 147 v. in 89, il., pl., 9 x 6,  $\frac{3}{4}$  sh., mor.
- 11.6 —On the efficiency and duration of incandescent electric lamps: Report of a special committee, appointed by the President. Phil., 1885. 127 pp., il., 17 tab., 9 x 6. pap.
- 11.3 —Report relative to the metric system of weights and measures. Phil., 1876. 14 pp., 9 x 6. pap.
- 11.5 —Subject catalogue of the Memorial Library of the International Electrical Exhibition, Sept.-Oct., 1884; comp. by E. Hilterbrand. Phil., 1885. 165 pp., il., 9 x 6. pap.
- GENERAL RAILROAD ASSOCIATION.** Journal of the proceedings of the convention held at Springfield, Aug. 24th and 25th, 1852. New Haven, 1852. 24 pp., 9 x 6, b. p. Ad-4, p. 67.
- Same; Nov. 23d, 1854. Newark, 1855. 32 pp., 9 x 6, b. p. Af-5, p. 173.
- GENERAL RAILROAD ASSOCIATION OF THE EASTERN, MIDDLE AND WESTERN STATES.** Proceedings; also of the General Ticket Agents' Association, convened at the Monongahela House, Pittsburg, Mar. 13th, 1855. Phil., 1855. 24 pp., 8 x 5, b. p. Ae-1, p. 783.
- GENERAL TIME CONVENTION.** See American Railway Association.
- 12.1 **ILLINOIS SOCIETY OF ENGINEERS AND SURVEYORS.** Annual report; being the proceedings of the Society at its annual meeting; 1st-14th; 1886-99. Peoria, 1886-99. 14 v., 9 x 6. pap.
- 49.1 **INDIANA ENGINEERING SOCIETY.** Proceedings of the annual meeting; 3d-19th; 1883-99. Note: From 1881-1886 called "Association of County Surveyors and Civil Engineers of the State of Indiana;" from 1886 to 1891, "Indiana Society of Civil Engineers and Surveyors." Nos. 7, 13, 16 (1887, '93, '96) wanting. Indianapolis, 1883-99. 13 v., il., 9 x 6. pap.
- 86.1 **INTERNATIONAL ASSOCIATION FOR TESTING MATERIALS.** Bulletin (American Section); 4th-18th; Sept., 1899-May, 1900. no place, 1899-1900. 15 v., 9 x 6, pap. no title-page.
- 86.2 —History, laws, committees and list of members; 1899. Phil., 1899. 1 v., 9 x 6, pap.
- 157.3 **INTERNATIONAL INSTITUTE FOR PRESERVING AND PERFECTING ANGLO-SAXON WEIGHTS AND MEASURES.** Argument by Committee of the New York and New Jersey Branch. no place, 1884. 2 pp., 11 x 8, pap. no title-page.
- 157.4 —Minutes of the meeting of the Ohio Branch. Cleveland, 1881. newspaper slips.
- 157.2 —Prospectus. no place, no date. 4 pp., 8 x 5, pap. no title-page.
- 157.5 —Vertical and cross-sections of the Great Pyramid of Jeezeh. Cleveland, 1881. pl., 42 x 27, cl.
- 157.1 —What shall be the prime meridian for the world? Report of Committee on Standard Time and Prime Meridian. Cleveland, 1884. 56 pp., 9 x 6, pap.
- 148.2a **INTERNATIONAL RAILWAY CONGRESS.** Bulletin; 1898-99 (v. 12-13). Note: v. 12, Nos. 1-3 (Jan.-Mar., 1898) wanting. Brussels, 1898-99. 2 v., 10 x 7, unbound.
- 148.2 —Same. French edition; 1887-95 (v. 1-9). Note: Incomplete. Bruxelles, 1887-95. 9 v., 10 x 7, unbound.
- 148.1 —Journal; June 25th-July, 1895; (Nos. 1-11.) Note: Printed in English and French, in parallel columns. Lond., 1895. 11 v., 13 x 8, pap.
- 59.1 **INTERNATIONAL ROAD-MASTERS' ASSOCIATION.** Proceedings of the annual meeting; 2d; 1880. N. Y., 1880. 1 v., 9 x 5, pap.
- 53.1 **IOWA CIVIL ENGINEERS' AND SURVEYORS' SOCIETY.** Proceedings at the annual meeting; 1887-96. Note: Proceedings, 1891 wanting. Glenwood, 1887-96. 8 v., il., 9 x 6. pap.
- 151.1 **JOINT EXECUTIVE COMMITTEE.** Proceedings; Dec. 18th, 1878 to Dec. 18th, '80. Note: Committee composed of representatives of railroad companies and organized for the purpose of regulating railroad rates. N. Y., 1880. 2 v., 9 x 6,  $\frac{3}{4}$  skiv.
- 147.1 **KANSAS IRRIGATION ASSOCIATION.** Proceedings: Annual convention; 1893-94. Topeka, 1893-94. 2 v., 9 x 6, pap.
- 79.1 **KANSAS STATE HISTORICAL SOCIETY.** Publications; embracing biographical sketches and the executive minutes of Governors Reeder and Shannon, 1854-56; addresses of Governors Stanton and Denver at Bismark, 1884; and proceedings of the Kansas Quarter-centennial Celebration at Topeka, Jan. 29th, 1886. Topeka, 1886. 302 pp., 9 x 6, cl.
- 85.1 **LAKE MOHONK CONFERENCE ON INTERNATIONAL ARBITRATION.** Report of the annual meeting; 4th-5th. no place, 1898-99. 2 v., 9 x 6, pap.
- 104.1 **LYCEUM OF NATURAL HISTORY IN THE CITY OF NEW YORK.** Charter, constitution and by-laws; with a list of the members, etc. N. Y., 1867. 1 v., 9 x 6, pap.

**Sa3 UNITED STATES—(Continued).**

- 146.4 **MASTER CAR BUILDERS' ASSOCIATION.** Circular of inquiry from the Secretary, with reference to the gauge of track, location of guard rails, etc. N. Y., 1884. 4 pp., il., 11 x 9, pap.
- 146.3 —Report of the proceedings of an adjourned meeting, held Oct. 10th, 11th and 12th, 1882. N. Y., 1883. 111 + 4 pp., pl., 9 x 6, pap.
- 146.1 —Report of the proceedings of the annual convention; 1st-9th, 11th-34th; 1867-75, 77-1900. N. Y., 1873-1900. 33 v. in 28, 6 x 4, pap.
- MASTER CAR-BUILDERS' CLUB.** See New York Railroad Club.
- 78.1 **MECHANICS' INSTITUTE, SAN FRANCISCO, CAL.** Report of the industrial exhibition; 11th-18th; 1876-83. Note: Nos. 14-17 (1879-82) wanting. San Fran., 1876-84. 4 v., il., 9 x 6, pap.
- 163.1 **MEDICAL SOCIETY OF THE STATE OF NEW YORK.** Defective drainage: Report of the Committee on Hygiene. no place, 1874. pp. 529-569, maps, 9 x 5, b. p.
- 51.1 **MICHIGAN ENGINEERING SOCIETY.** Michigan Engineers' Annual, containing the proceedings of the Society; 1882-96. Kalamazoo, 1882-96. 14 v., 9 x 6, pap.
- 139.1 **MICHIGAN SCHOOLMASTERS' CLUB.** Proceedings at the meeting; 32d-34th; 1898-1900. Ann Arbor, 1899-1900. 3 v., 10 x 7, pap.
- 139.2 —Proceedings at the thirty-second meeting: Report of the Physics Conference. Ann Arbor, 1899. 54 pp., il., tab., 10 x 7, pap.
- 13.1 **MILITARY SERVICE INSTITUTION OF THE UNITED STATES.** Journal (bi-monthly); 1880-May, 1900 (v. 1-26). Note: Published quarterly prior to 1889. v. 1, No. 1; v. 4, No. 16 wanting. Governor's Island, 1880-99. 26 v., 9 x 6, unbound.
- 13.2 —Official memoranda; 1882-83. Note: Contains annual report of the Executive Council and list of members. Governor's Island, 1882-83. 2 v., 9 x 6, pap.
- 97.1 **MISSOURI ASSOCIATION OF SURVEYORS AND CIVIL ENGINEERS.** Proceedings at the annual meeting; 5th-6th; 1885-86. Columbia, 1885-86. 2 v., il., 9 x 6, pap.
- 135.3 **MONTANA SOCIETY OF ENGINEERS.** Constitution and by-laws; 1887, '91, '97. Helena, 1887-97. 3 v., 6 x 3, pap.
- 135.4 —List of members; 1889, '99. Helena, 1889-99. 2 v., 9 x 6, pap.
- 135.2 —Proceedings of the annual meeting; 12th; 1899. no place, 1899. 1 v., il., 9 x 6, pap.
- 135.5 —The standing of engineering among the professions, by J. S. Keerl, retiring president. no place, 1896. 4 pp., 9 x 6, pap.
- MUNICIPAL ART SOCIETY OF NEW YORK.** See New York Municipal Art Society.
- NATIONAL ACADEMY OF DESIGN.** Annual report and list of members. 1899. (See Sa3-80.1.)
- 31.1 **NATIONAL ACADEMY OF SCIENCES.** Biographical memoirs; v. 3. Wash., 1895. 1 v., 10 x 6, pap.
- 31.2 —Memoirs; v. 1-6. Wash., 1866-93. 6 v. in 8, 12 x 10, pap., cl.
- 31.3 —Proceedings; 1884-94 (v. 1, Pt. 3). Wash., 1895. 1 v., 9 x 6, pap.
- 82.2 **NATIONAL ASSOCIATION OF BAR IRON MANUFACTURERS.** Argument of the Association against any reduction of present duties on iron; read before the Senate Committee on Finance. Phil., 1872. 10 pp., 9 x 6, pap.
- 82.1 —Quarterly report; 1st; Jan., 1872. Phil., 1872. 1 v., 9 x 6, pap.
- 165.1 **NATIONAL ASSOCIATION OF BUILDERS OF THE UNITED STATES OF America.** Official report: Annual convention; 2d-6th; 1888-92. Bost., 1888-90; N. Y., 1891-92. 5 v., 9 x 6, pap.
- 77.1 **NATIONAL ASSOCIATION OF FIRE ENGINEERS.** Proceedings of the annual convention; 17th; 1889. Cin., 1889. 1 v., 9 x 6, pap.
- NATIONAL ASSOCIATION OF INVENTORS.** Congressional supplement of the *Eureka*; or, the Journal of the National Association of Inventors, Jan., 1847. Note: Memorial to Congress praying a change in the patent laws. no place, 1847. 8 pp., 1 pl., 12 x 9, b. p. no title-page. Da-65, p. 325.
- 161.1 **NATIONAL ASSOCIATION OF MANUFACTURERS.** Report of a special committee on the metric system of weights and measures. Bost., 1898. newspaper slip.
- 61.1 **NATIONAL BRICK MANUFACTURERS' ASSOCIATION OF THE UNITED States of America.** Report of the Commission appointed to investigate the subject of paving brick tests and to recommend standard methods for their conduct. Indianapolis, 1897. 110 pp., il., 9 x 6, pap.
- 160.1 **NATIONAL CIVIL SERVICE REFORM LEAGUE.** Civil service reform in the national service, 1889-1891: Six reports of the Special Investigating Committee. Bost., 1891. 86 pp., 8 x 5, pap.

**Sa3 UNITED STATES—(Continued).**

- 64.1 **NATIONAL CONFERENCE OF CHARITIES AND CORRECTION.** Proceedings at the annual session; 20th. 22d-23d; 1893, '95-96. Bost., 1893-96. 3 v., il., 9 x 6, cl.
- 138.2 **NATIONAL INSTITUTE OF LETTERS, ARTS AND SCIENCES.** Constitution; 1868. N. Y., 1868. 1 v., 9 x 6, pap.
- 168.1 **NATIONAL RIFLE ASSOCIATION.** Annual report; 2d; 1874. N. Y., 1874. 1 v., 9 x 6, pap.
- NATIONAL SCULPTURE SOCIETY.** Annual report and list of members. 1899. (See Sa3-80.1.)
- NATIONAL SOCIETY OF MURAL PAINTERS.** Annual report and list of members. 1899. (See Sa3-80.1.)
- 99.1 **NEBRASKA ASSOCIATION OF ENGINEERS AND SURVEYORS.** Proceedings at the annual meeting; 1st-3d; 1884-86. Omaha, 1885-86. 3 v. in 2, il., 9 x 6, pap.
- 142.1 **NEW ENGLAND ASSOCIATION OF RAILROAD SUPERINTENDENTS.** Report of the trial of locomotive engines, made upon 1st and 2d Oct., 1851. Bost., 1852. 19 pp., tab., 9 x 6, pap.
- Reports and other papers of the Association, from the commencement of the Society to Jan. 1st, 1850. Bost., 1850. 48 pp., 8 x 5, b. p. Aj-36, p. 405.
- 48.2 **NEW ENGLAND COTTON MANUFACTURERS' ASSOCIATION.** Constitution, by-laws and list of members; 1895. Waltham, 1895. 1 v., 10 x 7, pap.
- 48.1 —Transactions; 1880-Apr., 1900 (Nos. 28-63). Note: Nos. 29-47 (Oct., 1880, 1881-89) wanting. Waltham, 1880-1900. 22 v., il., 10 x 7, pap.
- 158.1 **NEW ENGLAND FREE TRADE LEAGUE.** Debate on equitable protection between David Lubin of Philadelphia and John E. Russell of Leicester, Mass., Nov. 6th, 1897. no place, no date. 33 pp., 9 x 6, pap.
- 156.1 **NEW ENGLAND METEOROLOGICAL SOCIETY.** Bulletin; Nov.-Dec., 1884; Feb., Apr., June-Dec., '85; Jan.-Mar., '86 (Nos. 1-2, 4, 6, 8-17). no place, 1884-86. 3 v., maps, 9 x 6, unbound. no title-page.
- 156.2 —Instructions for rainfall observers. (Circular No. 3.) Providence, 1884. unpag., 9 x 6, pap. no title-page.
- 56.1 **NEW ENGLAND RAILROAD CLUB.** Proceedings of the meeting; Oct., 1894-Nov., '99. Note: Nov., Dec., 1894; Jan.-Mar., May, Sept., '95; Nov., '96 wanting. Bost., 1894-99. 6 v., il., 9 x 6, unbound.
- 58.1 **NEW ENGLAND ROADMASTERS' ASSOCIATION.** Proceedings of the annual convention; 1st-16th; 1883-98. Note: Nos. 2, 5, 9, 14 (1884, '87, '91, '96) wanting. Northampton, 1883-99. 12 v., 9 x 6, pap.
- 14.2 **NEW ENGLAND WATER-WORKS ASSOCIATION.** Eighteenth annual convention. Note: Souvenir of the Convention held at Syracuse. Syracuse, 1899. unpag., il., por., 6 x 9, pap.
- 14.1 —Journal (quarterly); 1886-99 (v. 1-13). New London, 1886-99. 13 v., il., 9 x 6, unbound.
- 14.3 —Transactions; 1883-85. Newton, 1883-86. 3 v., il., 9 x 6, pap.
- 96.1 **NEW JERSEY SANITARY ASSOCIATION.** Proceedings of the annual meeting; 21st, 25th; 1895, '99. New Brunswick, 1896-1900. 2 v., 9 x 6, pap.
- 119.1 **NEW YORK ARCHITECTURAL LEAGUE.** Officers, committees, members, constitution and by-laws; 1891-92. Note: For Annual report and list of members, 1899, see Sa3-80.1. N. Y., 1892. 1 v., 8 x 5, bds.
- 75.1 **NEW YORK ASSOCIATION FOR IMPROVING THE CONDITION OF THE POOR.** Annual report; 36th; 1879. N. Y., 1879. 1 v., il., 9 x 6, pap.
- NEW YORK FINE ARTS FEDERATION.** Annual report and list of members. 1899. (See Sa3-80.1.)
- 101.1 **NEW YORK HISTORICAL SOCIETY.** Charter and by-laws. N. Y., 1881. 1 v., 9 x 6, pap.
- 145.1 **NEW YORK LIBRARY CLUB.** Union list of periodicals currently received by the New York and Brooklyn libraries; ed. at Columbia College Library. N. Y., 1887. 58 pp., 10 x 7, cl.
- 115.1 **NEW YORK MATHEMATICAL SOCIETY.** Organization: Constitution, by-laws and list of members; 1891. N. Y., 1891. 1 v., 9 x 5, pap.
- NEW YORK MUNICIPAL ART SOCIETY.** Annual report and list of members. 1899. (See Sa3-80.1.)
- 57.1 **NEW YORK RAILROAD CLUB.** Proceedings; Nov., 1888; Nov., '93; Jan.-Mar., Sept.-Oct., '94; Mar.-Apr., Sept.-Dec., '95; Feb., '96-Dec., '99. N. Y., 1888-99. 8 v., il., 9 x 6, unbound.
- 94.1 **NEW YORK SOCIETY OF AMATEUR PHOTOGRAPHERS.** Proceedings (monthly); Apr.-Sept., 1886. N. Y., 1886. 1 v., 10 x 6, unbound.
- 117.1 **NEW YORK SOCIETY OF PRACTICAL ENGINEERING.** Constitution and by-laws. N. Y., 1870. 1 v., 6 x 4, cl.
- 67.1 **NEW YORK STATE AGRICULTURAL SOCIETY.** Transactions; together with an abstract of the proceedings of the county agricultural societies; 1843, '50-53, '55, '58, '61 (v. 3, 10-13, 15, 18, 21). Albany, 1844-62. 8 v., il., 9 x 6, cl.



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- 68.1 **NEW YORK STATE INSTITUTION OF CIVIL ENGINEERS.** Transactions; 1849 (v. 1, No. 2). Albany, 1849. 1 v., il., 12 x 9, pap.
- 169.1 **NEW YORK STATE—MUSEUM.** Bulletin; Nos. 2, 10, 17; 1888, '90, '97. Albany, 1888-97. 3 v., 10 x 7, pap.
- 143.1 **NEW YORK WEST SIDE ASSOCIATION.** Proceedings; 1870-71 (Nos. 1-6); 1871-72 (No. 1); 1872-73 (No. 1); 1873-74 (No. 2). N. Y., 1871-74. 9 v. in 4, 9 x 6, cl., pap.
- 140.1 **NORTHWEST RAILWAY CLUB.** Official proceedings; Oct., 1896-Jan., 1900 (v. 2, No. 4-v. 5, No. 5). Note: v. 2, Nos. 7-10 (Jan.-Apr., 1897); v. 3, No. 5 (Feb., 1898); v. 5, No. 4 (Dec., 1899) wanting. St. Paul, 1896-1900. 4 v., il., 9 x 6, unbound.
- 35.1 **OHIO INSTITUTE OF MINING ENGINEERS.** Ohio Mining Journal (quarterly); 1882-88 (v. 1-6). Note: Since 1885 publication has been irregular; no volume 4 published. v. 5, No. 4 (Aug., 1887) wanting. Columbus, 1882-88. 5 v., 9 x 6, unbound.
- 36.1 **OHIO SOCIETY OF SURVEYORS AND CIVIL ENGINEERS.** Annual report; being the transactions of the Society at its annual meeting; 1st-21st; 1880-1900. Note: Reports Nos. 18-20 (1897-99) wanting. Columbus, 1880-1900. 18 v., il., 9 x 6, pap.
- 36.2 —Charter, constitution and by-laws; with a list of members, together with their place of residence and occupation. Columbus, 1885. 1 v., 9 x 6, pap.
- 74.1 **OXFORD CLUB, LYNN, MASS.** Souvenir; descriptive of the social, religious and industrial characteristics of Lynn. Lynn, 1892. 64 pp., il., pl., 9 x 6, pap.
- 72.1 **PENNSYLVANIA HISTORICAL SOCIETY.** Address delivered at the annual meeting; 1869. Phil., 1869. 1 v., 9 x 6, pap.
- 166.1 **PHILADELPHIA CITIZENS' MUNICIPAL ASSOCIATION.** Annual report, with list of members, officers and committees; 9th-13th; Apr., 1894-99. Note: Report No. 10 (Apr., 1895-96) wanting. Phil., 1895-99. 4 v., 9 x 6, pap.
- 60.1 **PHILADELPHIA MUSEUMS.** Prospectus. no place, 1898. 16 pp., 9 x 6, pap.
- 60.3 —Republic of Costa Rica; by Gustavo Niederlein. Phil., no date. 127 pp., map, 9 x 6, pap.
- 60.2 —Republic of Guatemala; by Gustavo Niederlein. Phil., 1898. 63 pp., 9 x 6, pap.
- PI ETA SCIENTIFIC SOCIETY, RENSSELAER POLYTECHNIC INSTITUTE.**  
See Rensselaer Society of Engineers.
- 26.1 **PIONEER LAWMAKERS' ASSOCIATION OF IOWA.** Proceedings; 1896, '98. Des Moines, 1897-99. 2 v., 9 x 6, pap.
- 108.1 **POLYTECHNIC SOCIETY OF UTAH.** Constitution, by-laws and list of members. Salt Lake, 1890. 1 v., 9 x 5, pap.
- 93.1 **PURDUE SOCIETY OF CIVIL ENGINEERING.** Proceedings; 1897. Lafayette, 1897. 1 v., il., 9 x 6, pap.
- 152.1 **RAILROAD CONDUCTORS' LIFE INSURANCE ASSOCIATION OF THE United States and Canadas.** Proceedings at the international convention; 8th, 12th; 1875, '79. Columbus, 1875-79. 2 v., 6 x 4, pap.
- 149.3 **RAILWAY ASSOCIATION OF AMERICA.** Journal; May-Oct., 1874 (Nos. 1-2). St. Louis, 1874. 2 v., 9 x 6, pap.
- 149.4 —Memorandum on a proposed railway clearing house for the United States and Canada. St. Louis, 1874. 4 pp., 9 x 6, pap.
- 149.1 —Revised constitution, June, 1874. no place, no date. 3 pp., 14 x 8, pap. no title-page.
- 149.2 —Transactions at the meeting; 3d, 5th; 1873, '75. St. Louis, 1873-75. 2 v., 9 x 6, pap.
- 113.3 **RENSSELAER SOCIETY OF ENGINEERS.** Constitution and by-laws. Note: Formerly called Pi Eta Scientific Society. Albany, 1880. 1 v., 8 x 5, pap.
- 113.2 —List of members. Troy, 1892. 1 v., 9 x 6, pap.
- 113.4 —Papers read before the Society; 1876, '79-80, '81-82. Troy, 1876-82. 3 v., il., 9 x 6, pap.
- 113.1 —Selected papers; 1884-94 (v. 1; v. 2, Nos. 1-3). Troy, 1884-94. 2 v., il., 9 x 6, unbound.
- 40.1 **ROADMASTERS' ASSOCIATION OF AMERICA.** Proceedings of the annual convention; 1st-17th; 1883-99. Note: Proceedings Nos. 3, 4, 9 (1885, '86, '91) wanting. Sterling, 1883-99. 14 v. in 13, il., 9 x 6, pap.
- 110.2 **ST. LOUIS ACADEMY OF SCIENCE.** Constitution, by-laws and list of members. no place, 1890. 1 v., 9 x 6, pap.
- Inaugural address before the St. Louis Academy of Science by the President, James B. Eads, Jan. 15th, 1872. Wash., 1874. 29 pp., 9 x 6, b. p. Cb-422, p. 15.
- 110.1 —Transactions; Jan., 1898 (v. 8, No. 1). no place, 1898. 1 v., il., 10 x 6, pap.
- 141.1 **ST. LOUIS RAILWAY CLUB.** Official proceedings; Nov., 1897-99 (v. 2, No. 4-v. 4, No. 7). Note: v. 3, No. 9 (Feb., 1899) wanting. St. Louis, 1897-99. 3 v., 9 x 6, unbound.
- 112.1 **SCIENCE ASSOCIATION OF NEW YORK.** Constitution, by-laws and list of members. N. Y., 1889. 1 v., 6 x 3, pap.

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- 127.1 **SCIENTIFIC ALLIANCE OF NEW YORK.** Addresses delivered at the joint meeting; 1st; 1892. N. Y., 1893. 1 v., 9 x 6, pap.
- 76.1 **SILK ASSOCIATION OF AMERICA.** Annual report, with preamble and by-laws and catalogue of members and subscribers; 3d; 1875. N. Y., 1875. 1 v., 9 x 6, pap.
- 19.1 **SMITHSONIAN INSTITUTION.** Annual report of the Board of Regents showing the operations, expenditures and condition of the Institution for the year ending June 30th, 1854-June 30th, 1897. Note: Contains reports of the United States National Museum. Reports, 1855-56, '60, '80 wanting. Wash., 1855-99. 40 v. in 54, il., 9 x 6, cl.
- 19.2 — Bureau of Ethnology: Catalogue of prehistoric works east of the Rocky Mountains; by Cyrus Thomas. Wash., 1891. 246 pp., 17 pl., 10 x 6, pap.
- 19.6 — Catalogue of scientific and technical periodicals, 1665 to 1882; together with chronological tables and a library check-list; by H. C. Bolton. (Smithsonian Miscellaneous Collections.) Wash., 1885. 10 + 773 pp., 10 x 6, pap.
- 19.6a — Same, 1665-1895. ed. 2. Wash., 1897. 2 v., 10 x 6, pap.
- 19.8 — Exploration of the Colorado River of the West and its tributaries; explored in 1869, '70, '71 and '72, under the direction of the Secretary. Wash., 1875. 291 pp., pl., 12 x 9, cl.
- 19.3 — List of foreign correspondents. Jan., 1882. (Smithsonian Miscellaneous Collections.) Wash., 1882. 1 v., 10 x 6, pap.
- 19.5 — Same: Additions and corrections to, July, 1888; by George H. Boehmer. Wash., 1888. 147 pp., 9 x 6, pap.
- 19.4 — Same: Systematic arrangement of, July, 1888; by George H. Boehmer. Wash., 1888. 204 pp., 9 x 6, pap.
- 19.7 — Tables and results of the precipitation, in rain and snow, in the United States, and at some stations in adjacent parts of North America, and in Central and South America; by Charles A. Schott. Wash., 1872. 3 + 173 pp., il., 5 pl., maps, 14 x 10, bds.
- 19.9 — Tables, distribution and variations of the atmospheric temperature in the United States, and some adjacent parts of America; collected by the Smithsonian Institution, and discussed by Charles A. Schott. (Smithsonian Contributions to Knowledge.) Wash., 1876. 15 + 345 pp., pl., map, 14 x 10, bds.
- 19.10 — Winds of the globe; or, the Laws of atmospheric circulation over the surface of the earth; by James Henry Coffin; the tables completed, on the author's decease, and maps drawn, by Selden Jennings Coffin; with a discussion and analysis of the tables and charts, by Alexander Woeikof. (Smithsonian Contributions to Knowledge.) Wash., 1875. 25 + 756 pp., il., 26 pl., 14 x 10, bds.
- 73.2 **SOCIETY FOR THE PROMOTION OF ENGINEERING EDUCATION.** Presidential address. no place, 1896. 1 v., 9 x 6, pap.
- 73.1 — Proceedings; 1893 (v. 1). Columbia, 1894. 1 v., 9 x 6, cl.
- SOCIETY OF AMERICAN ARTISTS.** Annual report and list of members. 1899. (See Sa3-80.1.)
- 69.1 **SOCIETY OF ARTS, MASSACHUSETTS INSTITUTE OF TECHNOLOGY.** Abstract of the proceedings; 1879-91. Note: Proceedings, 1882-83, '83-84 wanting. Bost., 1880-91. 10 v., il., 9 x 6, pap.
- 69.2 — In memory of William Barton Rogers, LL. D., late President of the Society. Bost., 1882. 39 pp., por., 9 x 6, pap.
- 124.1 **SOCIETY OF ENGINEERS AND ASSOCIATES.** Constitution and by-laws; 1874-75. N. Y., 1875. 1 v., 6 x 4, cl.
- 39.1 **SOCIETY OF ENGINEERS IN THE UNIVERSITY OF MINNESOTA.** Year book; 1892-93. Minneapolis, 1893. 1 v., il., 10 x 7, pap.
- 164.1 **SOCIETY OF GAS LIGHTING.** Transactions; 1877, '83. Newport, 1878-84. 2 v., 9 x 6, pap.
- 15.2 **SOCIETY OF NAVAL ARCHITECTS AND MARINE ENGINEERS.** Constitution and by-laws and list of members. N. Y., 1897-1900. 4 v., 9 x 6, 5 x 4, pap., skiv.
- 15.1 — Transactions; 1893-99 (v. 1-7). Wash., 1893-99. 7 v., il., 11 x 8, cl.
- 133.2 **SOCIETY OF RIVER AND HARBOR ENGINEERS.** Constitution and by-laws. no place, no date. 11 pp., 9 x 6, pap. no title-page.
- 55.1 **SOUTHERN AND SOUTHWESTERN RAILWAY CLUB.** Constitution and proceedings; Nov., 1893-Jan., '99. Note: Jan.-Aug., 1893; Jan., Aug., '94; Jan., '95; Nov., '96; Aug., '97 wanting. Atlanta, 1893-99. 7 v., il., 9 x 6, unbound.
- SOUTHERN RAILWAY TIME CONVENTION.** See American Railway Association.
- 132.3 **SOUTHERN SOCIETY OF CIVIL ENGINEERS.** Constitution and by-laws. Jacksonville, 1885. 1 v., 6 x 4, pap.
- 132.2 — Proceedings: Annual reports, with professional papers; 1885-86 (v. 3). Jacksonville, 1887. 1 v., 8 x 5, pap.
- 44.1 **TECHNICAL SOCIETY OF THE PACIFIC COAST.** Transactions; 1884-96. Note: Volume for 1894 wanting. San Fran., 1884-96. 12 v. in 7, il., 9 x 6, ½ mor.

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- 98.1 **TECHNISCHER VEREIN VON NEW YORK.** Jahresbericht; 1880-81. N. Y., 1882. 1 v., 9 x 6, pap.
- 63.1 **TRAVELING ENGINEERS' ASSOCIATION.** Proceedings of the annual convention; 5th; 1897. Elkhart, 1897. 1 v., il., 9 x 6, pap.
- 20.2 **UNITED STATES—NATIONAL MUSEUM.** Bulletin; Nos. 1-2, 5, 39-46, 48. Wash., 1875-95. 12 v., 9 x 6, 10 x 6, pap.
- 20.1 —Proceedings; 1891-94 (v. 14-17). Wash., 1892-95. 4 v., il., pl., 9 x 6, cl.
- 20.3 —Special bulletin; No. 1. Wash., 1892. 1 v., pl., 13 x 10, pap.
- 16.1 **UNITED STATES NAVAL INSTITUTE.** Proceedings (quarterly); 1880-99 (v. 6-25). Annapolis, 1880-99. 20 v., il., 9 x 6, unbound.
- 144.1 **UNITED STATES TRADE MARK ASSOCIATION.** Bulletin; Sept., 1893 (v. 5, No. 3). N. Y., 1893. 1 v., 9 x 6, pap.
- 103.1 **WASHINGTON ASSOCIATION OF ENGINEERS AND ARCHITECTS.** Constitution; 1874. no place, no date. 1 v., 9 x 6, pap.
- 128.2 **WEST VIRGINIA SOCIETY OF CIVIL ENGINEERS AND ARCHITECTS.** Constitution. no place, 1835. 1 v., 6 x 3, pap.
- 128.1 —Proceedings of the annual meeting; 3d; 1898. Wheeling, 1898. 1 v., 9 x 6, pap.
- 150.1 **WESTERN AND SOUTHERN RAILWAY ASSOCIATION.** Proceedings at a meeting held in St. Louis, Jan. 16th, 1872. Note: Association organized at this meeting. Springfield, 1872. 17 pp., 8 x 5, pap.
- 150.2 —Proceedings of the quarterly meeting; 2d; Jl., 1872. Indianapolis, 1872. 1 v., 9 x 6, pap.
- WESTERN ASSOCIATION OF ARCHITECTS.** Proceedings; 1889. (See American Institute of Architects.)
- 92.1 **WESTERN NEW YORK CAR SERVICE ASSOCIATION.** Annual report; 10th; 1899. no place, 1899. 1 v., 9 x 5, pap.
- 17.2 **WESTERN RAILROAD ASSOCIATION.** Annual report of the Executive Committee to the members; 1872, '76. Chic., 1872-77. 2 v., 9 x 6, pap.
- 17.1 **WESTERN RAILWAY CLUB.** Official proceedings (monthly); 1893-May, '99 (v. 5-11). Note: Proceedings, Jan., Apr., May, Oct., 1893; Jan., Feb., Sept., Oct., Dec., 1894; Feb.-May, 1895 wanting. Chic., 1893-99. 7 v., il., 9 x 6, unbound.
- 18.3 **WESTERN SOCIETY OF ENGINEERS.** Constitution, by-laws and list of members; 1886, '94-96, '99-1900. Note: Formerly called Civil Engineers' Club of the Northwest. Chic., 1886-1900. 6 v., 9 x 6, pap.
- 18.2 —Journal (bi-monthly); 1896-99 (v. 1-4). Chic., 1896-99. 4 v., il., 9 x 6, unbound.
- 18.4 —Partial report of the Committee on the Metric System. no place, 1878. 33 pp., 9 x 6, pap.
- 18.1 —Proceedings; 1876, '78-80, '94 (v. 1, 3-5, 19). Note: v. 19, No. 319 wanting. Chic., 1876-94. 5 v., il., 9 x 6, cl.
- 24.1 **WISCONSIN ACADEMY OF SCIENCES, ARTS AND LETTERS.** Transactions; 1873-76, '88-91 (v. 2-3, 8). Madison, 1874-82. 3 v., por., pl., maps, 10 x 6, pap.

**SOCIETY PUBLICATIONS—SOUTH AMERICA.****Sbi ARGENTINE REPUBLIC.**

- 1.1 **SOCIEDAD CIENTÍFICA ARGENTINA.** Anales (monthly); 1876-99 (v. 1-48). Note: v. 5, No. 1 (Jan., 1878); v. 6, Nos. 3, 6 (Sept., Dec., '78); v. 9, Nos. 3, 6 (Mar., June, '80); v. 15, Nos. 4, 5 (Apr., May, '83); v. 36, No. 1 (July, '93) wanting. Buenos Aires, 1876-99. 48 v., 10 x 7, unbound.
- 3.1 **SOCIEDAD DE INGENIEROS CIVILES DE LA REPUBLICA ARGENTINA.** Estatutos. Buenos Aires, 1887. 1 v., 10 x 6, pap.
- 2.1 **SOCIEDAD GEOGRÁFICA ARGENTINA.** Revista; 1886-88, '90 (v. 4-7). Note: v. 4, 6-7 (1886, '88, '90) incomplete. Buenos Aires, 1886-90. 4 v., 10 x 6, unbound.

**Sb4 CHILE.**

- 1.1 **INSTITUTO DE INJENIEROS.** Anales (monthly); 1889-June, 1900 (v. 1-17). Note: Publication irregular. v. 4, Nos. 4-6 (Oct.-Dec., 1892); v. 5, No. 1 (Jan., '93) wanting. Santiago de Chile, 1889-1900. 17 v., il., 11 x 7, unbound.
- 1.2 —Estatutos. Santiago de Chile, 1899. 1 v., 10 x 7, pap.

**Sb11 VENEZUELA.**

- 1.1 **SOCIEDAD VENEZOLANA DE INGENIEROS CIVILES.** Ofrenda al Gran Mariscal de Ayacucho en su centenario. Caracas, 1895. 115 pp., pl., 9 x 6, pap.



Sc

- 1.1 **SOCIEDAD GUATEMALTECA DE CIENCIAS.** Revista mensual; Sept.-Nov., 1893, Jan.-June, '94 (v. 1, No. 12; v. 2, Nos. 1-2, 4-9). Guatemala, 1893-94. 2 v., 10 x 7, unbound.

SOCIETY PUBLICATIONS—EUROPE.

Sd1 AUSTRIA.

- 1.5 **OESTERREICHISCHER INGENIEUR- UND ARCHITEKTEN- VEREIN.** Bericht des Gewölbe-Ausschusses. Wien, 1895. 1 + 131 pp., 27 pl., 14 x 11, pap.
- 1.2 — Bericht über die aus Anlass des fünfzigjährigen Bestandes des Oesterr. Ingenieur-und Architekten-Vereines veranstalteten Festlichkeiten. Wien, 1899. 52 + 51 pp., il., tab., 14 x 10, pap.
- 1.4 — Denkschrift zur Erinnerung an die 25 Jaehrige Gründungsfeier des Vereins, 8 Juni, 1848-8 Juni, 1873. Wien, 1873. 23 pp., pl., 14 x 11, pap.
- 1.1 — Festschrift herausgegeben vom Vereine zur Feier seines fuenfzigjaehrigen Bestandes. Wien, 1899 (?) 154 pp., il., 14 x 10, pap.
- Nachtrag zum Verzeichniss der Mitglieder. Wien, 1874. 12 pp., 9 x 6, b. p. Cb-233, p. 665.
- 1.8 — Schäden an Dampfkesseln. Wien, 1891-96. 2 v., pl., 12 x 9, pap.
- 1.3 — Verzeichniss der Mitglieder; 1884, '86, '94, '96 (v. 22, 24, 28-29). Wien, 1884-96. 4 v., 9 x 6, pap.
- 1.7 — Wochenschrift (weekly); 1876-91 (v. 1-16). Note: Ceased publication at the close of 1891; from which date the *Zeitschrift* was published weekly, combining the functions of the two magazines. Wien, 1876-91. 16 v., 13 x 10, unbound.
- 1.6 — Zeitschrift (weekly); 1873-99 (v. 25-51). Note: Published monthly prior to 1892, before which date the weekly publication of the Society was the *Wochenschrift*. v. 25, 28, 43, 47 (1873, '76, '91, '95) incomplete. Wien, 1873-99. 26 v., 14 x 11, unbound.
- 2.1 **VEREIN FÜR DIE FÖRDERUNG DES LOCAL- UND STRASSENBAHNWESENS.** Mittheilungen (monthly); 1893-96 (v. 1-4). Wien, 1893-96. 4 v., il., 10 x 7, unbound.
- 2.2 — Sitzungen. Wien, 1893. 1 v., 9 x 6, pap.

Sd2 BELGIUM.

- 1.1 **ASSOCIATION DES INGÉNIEURS SORTIS DES ÉCOLES SPÉCIALES DE GAND.** Annales (quarterly); 1890-99 (v. 14-22). Note: v. 14, Pts. 2 and 4 (1890-91) wanting. Gand, 1891-99. 9 v., il., 9 x 6, unbound.
- 2.1 **SOCIÉTÉ BELGE DES INGÉNIEURS ET DES INDUSTRIELS.** Bulletin, annales et compte rendu; 1894-95 (v. 3, No. 1). Bruxelles, 1895. 1 v., il., 10 x 6, pap.
- 2.3 — Liste des membres; 1896-98, '99-1900. Bruxelles, 1897-1900. 3 v., 9 x 6, pap.
- 2.2 — Rapport annuel; 1896-99. Bruxelles, 1897-99. 3 v., 9 x 6, pap.

Sd3 DENMARK.

- 1.1 **TEKNISKE FORENING.** Tidsskrift (monthly); July, 1891-Mar., 1900 (v. 15-23). Kobenhavn, 1891-1900. 9 v., 12 x 10, unbound.

Sd4 FRANCE.

- 3.1 **ASSOCIATION AMICALE DES ANCIENS ELÈVES DE L'ÉCOLE CENTRALE** des Arts et Manufactures. Annuaire; 1888-99. Paris, 1888-1900. 12 v., 9 x 6, pap.
- 3.2 — Bulletin (monthly); Mar. 1887-Dec., '99 (v. 18-30). Note: From 1887-96 published bi-monthly. Sept. and Oct., 1887 (v. 18); Jan.-Oct., '88 (v. 19); Jan. and Feb., May and June, Sept. and Oct., '89 (v. 20); July and Aug., '92 (v. 23) wanting. Paris, 1887-99. 13 v., 9 x 6, unbound.
- 2.1 **ASSOCIATION SCIENTIFIQUE DE FRANCE.** Bulletin mensuel météorologique; Dec., 1871-Nov., '73 (v. 1-2). Paris, 1872-73. 2 v., 9 x 6, unbound.
- 5.1 **INTIME CLUB, PARIS.** Croquis d'architecture (monthly); 1866-Apr., '70 (v. 1-4). Paris, 1867-70. 4 v. in 2, il., 21 x 24, ½ ro.
- 1.1 **PARIS ACADEMIE DES SCIENCES.** Comptes rendus hebdomadaires des séances; 1850-64 (v. 30-53). Note: v. 31, 50, 51, 53 (July-Dec., 1850, Jan.-June, '60, July-Dec., '60, July-Dec., '61) incomplete; v. 49, 52, 54-57 (July-Dec., 1859, Jan.-June, '61, 1862-63) wanting. Paris, 1850-64. 24 v. in 23, 11 x 8, ½ skiv.
- 1.2 — Mémoires; 1866 (v. 35). Paris, 1866. 1 v., il., 11 x 9, pap.
- 4.2 **SOCIÉTÉ DES INGÉNIEURS CIVILS DE FRANCE.** Annuaire; 1891-1900 (v. 44-53). Paris, 1891-1900. 10 v., 9 x 6, pap.
- 4.3 — Cinquantenaire, 1948-98. Paris, 1898. 128 pp., il., 10 x 7, ¾ mor.
- 4.4 — Congrès de 1896. Paris, 1897. 131 pp., 2 pl., 9 x 6, pap.
- 4.1 — Mémoires et compte rendu des travaux de la Société; 1848-99. Paris, 1848-99. 42 v. in 62, 10 x 6, cl.

## Sd5 GERMANY.

- 14.1 **ARCHITEKTEN- UND INGENIEUR-VEREIN FÜR NIEDERRHEIN UND WESTFALEN.** Köln und seine Bauten; Festschrift zur VIII. Wanderversammlung des Verbandes deutscher Architekten- und Ingenieur-Vereine, in Köln, vom 12 bis 16 August, 1888. Köln, 1888. 14 + 806 pp., il., pl., 10 x 7, cl.
- 12.1 **ARCHITEKTEN- UND INGENIEUR-VEREIN ZU HAMBURG.** Hamburg und seine Bauten, unter Berücksichtigung der Nachbarstädte, Altona und Wandsbeck; zur IX. Wanderversammlung des Verbandes deutscher Architekten- und Ingenieur-Vereine in Hamburg, vom 24 bis 28 August, 1890. Hamburg, 1890. 23 + 730 pp., il., pl., 10 x 7, cl.
- 16.1 **ARCHITEKTEN- UND INGENIEUR-VEREIN ZU HANNOVER.** Hannover; Führer durch die Stadt und ihre Bauten; redigirt von Theodor Unger. Hannover, 1882. 14 + 246 pp., il., pl., maps, 8 x 4, cl.
- 16.2 — Zeitschrift; 1875-97 (v. 21-43). Note: v. 42, 43 (1896, '97) incomplete; v. 26, 35, 41 (1880, '89, '95) wanting. Hannover, 1875-97. 20 v., 14 x 10, unbound.
- 13.1 **ARCHITEKTEN VEREIN ZU BERLIN.** Berlin und seine Bauten. Ber., 1877. 2 v. in 1, il., pl., 11 x 7, pap.
- 17.1 **BAYERISCHER ARCHITEKTEN- UND INGENIEUR-VEREIN.** Bautechnischer Führer durch München; Festschrift zur zweiten General-Versammlung des Verbandes deutscher Architekten- und Ingenieur-Vereine; redigirt von Franz Reber. München, 1876. 6 + 286 pp., il., pl., 7 x 5, bds.
- 9.1 **DEUTSCHER ARCHITEKTEN- UND INGENIEUR-VEREIN.** Bericht ueber die Versammlung. Wien, 1865. 1 v., il., pl., 13 x 10, pap.
- 9.2 — Stenographische Berichte über die Verhandlungen in den Haupt-Abtheilungs-Sitzungen der General-Versammlung; 1st; 1874. Ber., 1875. 1 v., 8 x 5, pap.
- 20.1 **ELEKTRO-TECHNISCHER VEREIN.** Origin and operations. Ber., 1881. 30 pp., 7 x 5, pap.
- 10.1 **FRANKFURTER ARCHITEKTEN- UND INGENIEUR-VEREIN.** Frankfurt a.M. und seine Bauten. Frankfurt a. M., 1886. 8 + 650 pp., il., pl., map, 10 x 7, pap.
- 6.1 **SÄCHSISCHER INGENIEUR- UND ARCHITEKTEN-VEREIN.** Jahrbuch; 1882-83 (v. 1-2). Note: v. 2, Pt. 1 wanting. Leipzig, 1882-84. 2 v., il., 12 x 9, pap.
- 6.2 **SÄCHSISCHER INGENIEUR- UND ARCHITEKTEN-VEREIN UND DRESDENER Architekten-Verein.** Die Bauten der technischen und industriellen Anlagen von Dresden. Dresden, 1878. 10 + 594 pp., il., pl., 11 x 7, bds.
- 7.1 **SÄCHSISCHER INGENIEUR-VEREIN.** Mittheilungen; 1858 (Pt. 1). Dresden, 1858. 1 v., 11 x 7, pap.
- 5.3 **VERBAND DEUTSCHER ARCHITEKTEN UND INGENIEURE.** Mittheilungen über Wiesbaden und vom Mittelrhein; Festschrift zu der Wander-Versammlung des Verbandes, in Wiesbaden, vom 15 bis 23, September, 1880. München, 1880. 134 pp., pl., 14 x 10, pap.
- 5.2 — Statuten; 1871. Ber., 1872. 1 v., 8 x 5, pap.
- 2.1 **VEREIN DEUTSCHER EISENBAHN-VERWALTUNGEN.** Berichte über die Beantwortungen wichtiger technischer Fragen. Ber., 1892. various pagings, 15 x 8, pap.
- 2.2 — Organ für die Fortschritte des Eisenbahnwesens in technischer Beziehung; ed. by Edmund Heusinger von Waldegg; 19th-29th year; new ser., v. 1-3, 5-11. Wiesbaden, 1864-74. 11 v. in 10, 12 x 9, bds.,  $\frac{3}{4}$  mor.
- 2.2a — Same. Sach- und Autoren-Register; 1864-73. Wiesbaden, 1873. 84 pp., 12 x 10 pap.
- 3.1 **VEREIN DEUTSCHER INGENIEURE.** Festschrift zur 39. Hauptversammlung. Chemnitz, 1898. 8 + 416 pp., il., maps in pocket, 11 x 8, cl.
- 3.2 — Verzeichniss der Mitglieder; 1876, '91, '93, 1900. Ber., 1876-1900. 4 v., 12 x 10, 7 x 5, pap.
- 3.3 — Zeitschrift (weekly); 1885-99 (v. 29-43). Ber., 1885-99. 15 v., 12 x 9, unbound.
- 1.1 **VEREIN DEUTSCHER PORTLAND CEMENT-FABRIKANTEN.** Protokoll der Verhandlungen; 1878-99. Ber., 1878-99. 22 v., il., 9 x 6, unbound.
- 19.1 **VEREIN FÜR EISENBahnKUNDE IN BERLIN.** Mittheilungen aus der Tagesliteratur des Eisenbahnwesens; 1886-88. Ber., 1886-88. 3 v., 8 x 5, pap.
- 19.2 — Verhandlungen; 1886-88. Ber., 1886-88. 3 v., 8 x 5, pap.
- 4.1 **VEREIN FÜR ERDKUNDE.** Jahresbericht; 8th-9th, 11th-15th; 1870-72, '73-78. Dresden, 1872-78. 7 v. in 6, 8 x 5, pap.
- 8.1 **VEREIN ZUR BEFÖRDERUNG DES GEWERBFLEISSES.** Verhandlungen. Ber., 1896. 1 v., 11 x 9, pap.
- 11.1 **VEREINIGUNG LEIPZIGER ARCHITEKTEN UND INGENIEURE.** Leipzig und seine Bauten; zur X. Wanderversammlung des Verbandes deutscher Architekten- und Ingenieur-Vereine in Leipzig vom 28 bis 31 August, 1892. Leipzig, 1892. 16 + 836 pp., il., pl., map, 10 x 7, cl.
- 15.1 **WÜRTEMBERGER VEREIN FÜR BAUKUNDE.** Stuttgart; Führer durch die Stadt und ihre Bauten; Festschrift zur sechsten General-Versammlung des Verbandes deutscher Architekten- und Ingenieur-Vereine. Stuttgart, 1884. 9 + 205 pp., il., pl., maps, 8 x 4, cl.

## Sd6 GREAT BRITAIN.

- 21.1 **AERONAUTICAL SOCIETY OF GREAT BRITAIN.** Annual report; 1st;—22d; 1866–87. Lond., 1866–87. 22 v. in 20, il., pl., 7 x 5, pap.
- 21.2 —First exhibition: Catalogue. Lond., 1869 (?) 23 pp., 9 x 6, pap.
- 18.1 **ASSOCIATION OF MUNICIPAL AND SANITARY ENGINEERS AND SURVEYORS.** Proceedings; 1873–75, '77–82 (v. 1–2, 4–8). Lond., 1875–82. 7 v., 9 x 6, cl.
- 2.1 **BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.** Report of the meeting; 1st–69th; 1831–99. Note: Reports Nos. 26, 28, 31–32, 37, 40–42, 44–46, 51 (1856, '58, '61–62, '67, '70–72, '74–76, '81) wanting. Lond., 1833–99. 57 v. in 56, 9 x 6,  $\frac{3}{4}$  sh., cl.
- 2.2 —Toronto meeting, 1897: Preliminary programme. Toronto, 1896. 69 pp., il., maps, 9 x 6, pap.
- 23.1 **BRITISH IRON TRADE ASSOCIATION.** Annual statistical report of the Secretary to the members, on the home and foreign iron and steel industries; 8th; 1884. Lond., 1885. 1 v., 9 x 6, pap.
- 25.1 **CORPS OF ROYAL ENGINEERS.** Papers on subjects connected with the duties of the Corps; v. 1–10. Lond., 1839–49. 10 v., il., 11 x 8, sh.
- 30.1 **DECIMAL ASSOCIATION.** Copy of the memorial to the School Board for London, presented by deputation June 26th, 1890. Lond., no date. unpag., 13 x 8, pap.
- 32.1 **GAS INSTITUTE.** List of subscriptions, etc.; 1881. no place, 1881. 1 v., 8 x 5, pap.
- GEOLOGICAL SOCIETY OF LONDON.** Quarterly journal; v. 14. Lond., 1858. 1 v., il., 8 x 5, b. p. Yh-23, p. 249.
- 28.1 **IMPERIAL INSTITUTE.** Journal; 1895–97 (v. 1–3). Note: Each volume incomplete. Lond., 1895–97. 3 v., 15 x 10, unbound.
- 28.3 —Organization, rules, etc. Lond., 1892. 64 pp., il., 10 x 6, pap.
- 9.1 **INSTITUTE OF MARINE ENGINEERS.** Transactions; 1889–99 (v. 1–10). Stratford, 1889–99. 10 v., il., pl., 8 x 5,  $\frac{3}{4}$  cf.
- 1.8 **INSTITUTION OF CIVIL ENGINEERS.** Address of Charles Blacker Vignoles on his election as President of the Institution. Lond., 1870. 59 pp., tab., 10 x 7, pap.
- Address of Thomas Hawksley on his election as President. Lond., 1872. 24 pp., 9 x 6, b. p. Cb-232, p. 249.
- 1.6 —Benevolent fund: Report of the proceedings at the annual general meeting; 8th, 12th; 1872, '76. no place, 1872–76. 2 v., 8 x 5, pap.
- 1.5 —Catalogue of the library, 1865. ed. 2. Lond., 1866. 8 + 378 pp., 9 x 6, cl.
- 1.5a —Same: Supplement, 1866–70. Lond., 1870. 160 pp., 9 x 6, cl.
- 1.5b —Same. Lond., 1895. 3 v., 9 x 6, cl.
- 1.3 —Charter, supplemental charters, by-laws and list of members; 1866, '79–80, '85, '89, '91, '93, '95–96, '98. Lond., 1866–98. 10 v., 9 x 6, pap., cl.
- 1.9 —Engineering education in the British dominions; comp. fr. official sources, with regulations of the Institution as to the admission of students. Lond., 1891. 76 pp., 8 x 5, cl.
- 1.11 —Heat in its mechanical applications: A series of lectures delivered at the Institution; Session 1883–84. Lond., 1885. 236 pp., 4 pl., 9 x 6, cl.
- 1.4 —List of members; Jan., 1888–July, 1900. Lond., 1888–1900. 41 v., 9 x 6, pap.
- 1.2 —Minutes of proceedings, with other selected and abstracted papers; 1837–1900 (v. 1–141). Lond., 1837–1900. 141 v., 9 x 6, cl.
- 1.2a —Same; Index; v. 1–138. Lond., 1881–99. 3 v., 9 x 6,  $\frac{1}{2}$  mor., pap.
- 1.10 —Practical applications of electricity: A series of lectures delivered at the Institution; Session 1882–83. Lond., 1884. 181 pp., 2 pl., 9 x 6, cl.
- 1.7 —Report of proceedings at the annual general meeting; 1881, '97. Lond., 1881–97. 2 v., 8 x 5, pap.
- 1.13 —Report of the Committee appointed on the 31st Mar., 1896, to consider and report to the Council upon the subject of the definition of a standard or standards of thermal efficiency for steam engines. Lond., 1898. 37 pp., 5 pl., 8 x 5, pap.
- 1.12 —Theory and practice of hydro-mechanics: A series of lectures delivered at the Institution; Session 1884–85. Lond., 1885. 208 pp., 6 pl., 9 x 6, cl.
- 1.1 —Transactions; v. 1–3. Lond., 1836–42. 3 v. in 7, il., tab., 11 x 9,  $\frac{3}{4}$  cf., cl.
- INSTITUTION OF CIVIL ENGINEERS OF IRELAND.** An address on Dec. 7th, 1887; by the President, John Purser Griffith. Dublin, 1887. 47 pp., 8 x 5, b. p. Kb-22, p. 73.
- 5.2 —Bye-laws and regulations. Dublin, 1874. 1 v., 9 x 6, pap.
- 5.3 —List of members; 1877–78. Dublin, 1877–78. 2 v., 8 x 5, pap.
- Report of John Purser Griffith to the Council of the Institution, on the International Congress of Engineers, held in Chicago, July 31st to Aug. 5th, 1893. no place, no date. 8 pp., 8 x 5, b. p. no title-page. Kb-22, p. 219.
- 5.4 —Royal charter of incorporation. no place, 1877. 8 pp., 8 x 5, pap.
- 5.1 —Transactions; 1875–87, '94–97 (v. 11–18, 23–26). Dublin, 1877–97. 12 v., 9 x 6, pap.



**Sd6 GREAT BRITAIN—(Continued).**

- 7.1 **INSTITUTION OF ENGINEERS AND SHIPBUILDERS IN SCOTLAND.** Transactions; 1857-99 (v. 1-42). Glasgow, 1858-99. 42 v., il., pl., 9 x 6, pap., cl.
- 11.2 **INSTITUTION OF JUNIOR ENGINEERS.** Programme, list of members, rules, and report of session; 9th-11th; 1889-92. Lond., 1889-91. 3 v., 8 x 5, pap.
- 11.1 —Record of transactions; 1891-99 (v. 2-9). Lond., 1891-99. 8 v., il., pl., 9 x 6, cl.
- 17.4 **INSTITUTION OF MECHANICAL ENGINEERS.** Belfast meeting, 1896: Detailed programme. no place, 1896. 12 pp., il., 5 maps, 9 x 4, pap.
- 17.2 —Library catalogue. May, 1881, June, 1887, and subject index of papers in the Proceedings, 1847-87. Lond., no date. various pagings, 9 x 6,  $\frac{3}{4}$  mor.
- 17.3 —List of members; 1873, '76, 1900. no place, 1873-1900. 3 v., 9 x 6, pap.
- 17.1 —Proceedings; 1861-99. Lond., 1861-99. 39 v., il., pl., 9 x 6,  $\frac{3}{4}$  mor., pap.
- 26.3 **INSTITUTION OF MINING ENGINEERS.** Historical sketch of the first Institution of Mining Engineers: A paper read Feb. 22d, 1899. B. H. Brough. Lond., 1899. 13 pp., 10 x 6, pap.
- 15.1 **INSTITUTION OF NAVAL ARCHITECTS.** Transactions; 1835 (v. 36). Lond., 1895. 1 v., 11 x 9, cl.
- 6.3 **IRON AND STEEL INSTITUTE.** Catalogue of the library, 1884. Lond., 1884. 1 v., 9 x 6, cl.
- 6.5 —Detailed programme of meeting; 1885, '90. Glasgow, 1885-90. 2 v., 8 x 5, pap.
- 6.1 —Journal; 1872-1900 (v. 1-57). Note: v. 3 (1873) wanting. Lond., 1872-1900. 56 v., il., pl., 9 x 6, cl.
- 6.4 —Rules and list of members; 1894-1900. Lond., 1894-1900. 7 v., 9 x 6, pap.
- 6.2 —Special volume of "Proceedings." Note: Relates to the visit of the Iron and Steel Institute to the United States in 1890. Lond., no date. 20 + 508 pp., il., pl., maps, tab., 9 x 6, cl.
- 4.2 **LIVERPOOL ENGINEERING SOCIETY.** Report and statement of accounts; 1890-92 (Sess. 17-19). no place, 1890-92. 3 v., 8 x 5, pap.
- 4.1 —Transactions; 1877-99 (v. 1-20). Liverpool, 1881-99. 20 v. in 13, 9 x 6,  $\frac{3}{4}$  mor., pap.
- 31.1 **MANCHESTER STEAM USERS' ASSOCIATION.** Annual report of the Committee of Management to the members of the Association; 1869, '71-72. Manchester, '70-73. 3 v., 9 x 6, pap.
- 31.3 —Chief Engineer's monthly report to the Executive Committee; Jan., 1868-June, '76 (Nos. 73-174). Note: Nos. 95, 106, 132, 139-143, 150, 154, 156-173 wanting. Manchester, 1868-76. 43 v. in 17, 9 x 6,  $\frac{3}{4}$  ro., pap.
- 31.2 —Memorandum by the Chief Engineer; 1898-1900. Manchester, 1898-1900. 3 v., 9 x 6, pap.
- 20.1 **MIDLAND INSTITUTE OF MINING, CIVIL AND MECHANICAL ENGINEERS.** Transactions; 1878-99 (v. 6-15). Barnsley, 1879-99. 10 v., 9 x 6, pap.
- 3.2 **MINING INSTITUTE OF SCOTLAND.** Rules, list of members; 1880, '82, '84, '93-95. Hamilton, 1880-95. 6 v., 8 x 5, 9 x 6, pap.
- 3.1 —Transactions; 1879-99 (v. 1-20). Hamilton, 1880-99. 20 v., il., 9 x 6, cl., pap.
- 29.1 **NATIONAL RIFLE ASSOCIATION.** Proceedings; 1873. Lond., 1873. 1 v., 9 x 6, pap.
- 8.5 **NORTH OF ENGLAND INSTITUTE OF MINING AND MECHANICAL ENGINEERS.** Account of the strata of Northumberland and Durham as proved by borings and sinkings. Note: A-B, L-M wanting. Newcastle-upon-Tyne, 1881-97. 4 v., 10 x 6, pap.
- 8.2 —Annual report of the Council, accounts, list of Council, officers and members, and the charter and bye-laws; together with the bye-laws of the Federated Institution of Mining Engineers; 1890-99. Note: Report, 1895 wanting. Newcastle-upon-Tyne, 1891-99. 8 v., 10 x 6, pap.
- 8.4 —Report of the French Commission on the use of explosives in the presence of fire-damp in mines; tr. by W. J. Bird and M. Walton Brown. Newcastle-upon-Tyne, 1890. 1 v. in 3, il., tab., 10 x 6, pap.
- 8.3 —Report of the proceedings of the Flameless Explosives Committee, by A. C. Kayll. Contents: Pt. 1, Air and combustible gases; Pt. 2, Coal-dust; Pt. 3, Conclusions. Newcastle-upon-Tyne, 1894-96. 1 v. in 3, il., pl., 10 x 6, pap.
- 8.1 —Transactions; 1868-90, '93-99 (v. 18-39, 42-48). Newcastle-upon-Tyne, 1869-99. 29 v., il., pl., 10 x 6,  $\frac{3}{4}$  cf., pap.
- 10.1 **NORTHEAST COAST INSTITUTION OF ENGINEERS AND SHIPBUILDERS.** Transactions; 1893-99 (v. 10-15). Lond., 1894-99. 6 v., 10 x 6,  $\frac{3}{4}$  mor.
- 14.1 **PHILOSOPHICAL SOCIETY OF GLASGOW.** Proceedings; 1888-99 (v. 20-30). Glasgow, 1889-99. 11 v., il., pl., 9 x 6, pap.
- 22.1 **ROYAL SOCIETY OF LONDON FOR THE ADVANCEMENT OF NATURAL KNOWLEDGE.** Philosophical transactions and collections; 1700-1750 (v. 1-10). Lond., 1731-56. 10 v. in 12, 10 x 7, cf.
- 12.4 **ROYAL UNITED SERVICE INSTITUTION.** Brief history. Boughey Burgess. Lond., 1887. 37 pp., il., 9 x 6, pap.

**Sd6 GREAT BRITAIN—(Continued).**

- 12.3 —Bye-laws. no place, 1892. 1 v., 9 x 6, pap.
- 12.1 —Journal; 1874-99 (v. 18-43). Note: v. 18 incomplete. Lond., 1874-99. 26 v., 10 x 6, unbound.
- 12.2 —List of members; 1880-81, '85, '88, '90, '92. Lond., 1880-92. 6 v., 9 x 6, pap.
- 13.2 **SANITARY INSTITUTE OF GREAT BRITAIN.** Journal; Apr., 1895 (v. 16, Pt. 1). Lond., 1895. 1 v., il., por., pl., 9 x 6, pap.
- 13.1 —Transactions; 1879-80 (v. 1-2). Lond., 1880-81. 2 v., 9 x 6, cl.
- 24.1 **SOCIETY OF ARTS.** Journal (weekly); 1874-99 (v. 23-47). Lond., 1874-99. 25 v., 10 x 7, unbound.
- 24.3 —Report on the application of science and art to street-paving and street-cleansing of the Metropolis. Lond., 1875. 35 pp., il., 10 x 6, pap. no title-page.
- 24.2 —Reports of artisans selected by a committee appointed by the Council of the Society to visit the Paris Universal Exhibition, 1867. Lond., 1867. 2 v. in 1, 9 x 6, cl.
- 16.2 **SOCIETY OF ENGINEERS.** Rules, bye-laws and list of members, etc.; 1877, '86-87. Lond., 1877-87. 3 v., 8 x 5, pap.
- 16.1 —Transactions; 1861-99. Note: Transactions for 1875 wanting. Lond., 1862-1900. 38 v., il., pl., 9 x 6, pap., cl.

**Sd8 ITALY.**

- 1.1 **COLLEGIO DEGLI ARCHITETTI ED INGEGNERI IN FIRENZE.** Atti; July, 1876-July, '77; Apr.-Aug., '79; Jan.-June, '94; Jan.-June, '95; '96 (v. 1; v. 2, Pt. 1; v. 4, Pt. 2; v. 19, Pt. 1; v. 20, Pt. 1; v. 21). Firenze, 1887-96. 6 v., il., 10 x 7, unbound.
- 3.1 **COLLEGIO DEGLI INGEGNERI E DEGLI ARCHITETTI IN PALERMO.** Atti; 1887-90, '92-94 (v. 10-13, 15-17). Note: v. 11, No. 1; v. 12, Nos. 2-3; v. 14; v. 15, Nos. 1-2; v. 16, No. 1 wanting. Palermo, 1887-94. 6 v., 11 x 8, unbound.
- 2.1 **SOCIETÀ DEGLI INGEGNERI E DEGLI ARCHITETTI ITALIANI.** Annali (bi-monthly); 1892-99 (v. 7-14). Note: v. 13, Nos. 3, 6; v. 14, No. 6 (May-June, Nov.-Dec., 1898; Nov.-Dec., '99) wanting. Roma, 1892-99. 8 v., il., 11 x 7, unbound.
- 2.2 —Cataloga della biblioteca, 1898. Roma, 1898. 8 + 140 pp., 10 x 7, pap.

**Sd9 NETHERLANDS.**

- 2.4 **KONINKLIJK INSTITUUT VAN INGENIEURS.** Gedenkboek uitgegeven ter gelegenheid van het vijftigjarig bestaan. Note: A collection of papers by members of the Institute on various engineering works. no place, 1897. 337 pp., il., pl., 15 x 11, cl.
- 2.2 —Mémorial publié à l'occasion du cinquantenaire de l'Institut Royal Ingénieurs Néerlandais, 1847-1897. La Haye, 1899. 212 pp., 14 x 11, ½ cl.
- 2.1 —Reglement en verordeningen. Te's-Gravenhage, 1871. 1 v., 9 x 6, pap.
- 2.6 —Repertoire de cartes; 1856, '59, '65, '68. La Haye, 1856-68. 4 v., 11 x 7, unbound.
- 2.3 —Tijdschrift; 1870-99. Note: Contains each year a general report of the work of the Instituut with a list of members; 1893-99 incomplete. Te's-Gravenhage, 1870-99. 29 v., 13 x 10, unbound.
- 2.3a —Same; Register; 1869-94. Te's-Gravenhage, 1884-94. 3 v., 13 x 10, pap.
- 2.5 —Vakafdeeling voor werktuig-en scheepsbouw: Jaarverslag; 1899-1900. no place, no date. 1 v., 10 x 7, pap.
- 1.1 **NEDERLANDSCHE VEREENIGING VOOR ELECTROTECHNIEK.** Notulen; 1895-99 (Nos. 1, 3-4, 8-9). Te's-Gravenhage, 1896-99. 5 v. in 3, 9 x 6, pap.

**Sd10 NORWAY.**

- 1.1 **NORSKE INGENIOR- OG ARKITEKT-FORENING OG DEN POLYTEKNISKE Forening.** Medlemsfortegnelse; 1894, '97. Christiania, 1894-97. 2 v., 10 x 6, 9 x 6, pap.

**Sd11 PORTUGAL.**

- 1.3 **ASSOCIAÇÃO DOS ENGENHEIROS CIVIS PORTUGUEZES.** Lista dos socios. Lisboa, 1892. 1 v., 9 x 6, pap.
- 1.2 —Relação dos socios effectivos e aggregados; Apr., 1899. Lisboa, 1899. 1 v., 9 x 6, pap.
- 1.1 —Revista de obras publicas e minas (monthly); 1870-99 (v. 1-30). Note: v. 27, Nos. 322-324 (Oct.-Dec., 1896) wanting. Lisboa, 1870-99. 30 v., il., 9 x 6, ½ ro.

**Sd13 RUSSIA.**

- 1.1 **TECHNISCHER VEREIN ZU RIGA.** Notizblatt; 1892-94 (v. 11-13). Riga, 1892-94. 3 v., 12 x 9, unbound.

**Sd14 SPAIN.**

- 1.1 **ASOCIACIÓN DE INGENIEROS INDUSTRIALES DE BARCELONA.** Revista Tecnológico Industrial (monthly); 1889-99 (v. 13-22). Note: v. 13, Nos. 1-5, 7-12 (Jan. May, July-Dec., 1890); v. 14-15 ('91-92); v. 16, Nos. 1-9 (Jan.-Sept., '93) wanting. Barcelona, 1889-99. 9 v., il., 10 x 7, unbound.

**Sd15 SWEDEN.**

- 2.1 **INGENIÖRS-FÖRENINGENS.** Förhandlingar; 1876-90 (v. 11-25). Note: v. 18 (1883) incomplete. Stockholm, 1876-90. 15 v., 11 x 9, unbound.
- 1.1 **SVENSKA TEKNOLOGFÖRENINGEN.** Förteckning ofver ledamöter; 1898-1900. Stockholm, 1898-1900. 8 v., 8 x 5, pap.

**Sd16 SWITZERLAND.**

- 1.1 **INTERNATIONALER VERBAND FÜR DIE MATERIAL PRÜFUNGEN DER Technik.** Statuten und Mitglieder-Verzeichnis, Zurich, 1897. 1 v., 9 x 6, pap.
- 2.1 **SCHWEIZERISCHER INGENIEUR UND ARCHITEKTEN VEREIN.** Bauwerke der Schweiz; v. 1-3. Zurich, 1896-1900. 3 v., pl., 19 x 14, pap.

**SOCIETY PUBLICATIONS—ASIA.****Se**

- 3.1 **COMMITTEE OF LOCOMOTIVE AND CARRIAGE SUPERINTENDENTS FOR India.** General and subsidiary rules, corrected up to 1st Jan., 1894. no place, 1894. 23 pp., 14 x 9, pap.
- 3.2 —General directory and railway list, corrected up to 1st Jan.; 1892, '94-96. Simla, 1892-96. 4 v., 14 x 9, pap.
- 3.3 —Proceedings; 1889-94 (v. 1-6). Simla, 1890-95. 6 v., 14 x 9, ¾ ro.
- 3.3a —Same; Index; v. 1-6. Simla, 1894-95. 3 v., 14 x 9, ¾ ro.
- 3.5 —Proceedings of the meeting held at Lucknow in Dec., 1889. Note: Meeting to discuss the organization of such a committee in India. no place, no date. unpaged, 14 x 9, pap. no title-page.
- 3.4 —Reprint of the proceedings; 1889-93 (v. 1-5). Simla, 1894. 211 pp., 14 x 9, pap.
- 2.3 **KŌGAKUKYŌKAI.** Address delivered before the members of Kōgakukyōkai, Feb., 1886, on engineering matters in Japan. J. A. L. Waddell. Tokyo, 1866. 21 pp., 9 x 6, pap.
- 1.2 **SEISMOLOGICAL SOCIETY OF JAPAN.** Constitution. no place, 1883. 1 v., 9 x 6, pap. no title-page.
- 1.1 —Transactions; 1882-94 (v. 4-17, 19). Note: v. 8 (1885) wanting. Yokohama, 1882-94. 14 v. in 17, il., pl., 9 x 6, pap.

**SOCIETY PUBLICATIONS—AFRICA.****Sf**

- 1.1 **SOUTH AFRICAN ASSOCIATION OF ENGINEERS AND ARCHITECTS.** Proceedings; 1892-99 (v. 1-5). Note: v. 4 (1897-98) wanting. Johannesburg, 1898-99. 4 v., 9 x 6, pap.

**SOCIETY PUBLICATIONS—AUSTRALIA.****Sg**

- 5.2 **AUSTRALASIAN INSTITUTE OF MINING ENGINEERS.** Proceedings: Annual meeting; 1898, 1900. Melbourne, 1898-1900. 2 v., 9 x 6, pap.
- 5.3 —Proceedings: Ordinary meeting; 1898-99. Melbourne, 1898-99. 2 v., 9 x 6, pap.
- 5.1 —Transactions; 1897-99 (v. 4-6). Melbourne, 1897-1900. 3 v., il., pl., 9 x 6, pap.
- 2.1 **ENGINEERING ASSOCIATION OF NEW SOUTH WALES.** Minutes of proceedings; also, act of incorporation, rules and by-laws, and list of members; 1885-95 (v. 1-10). Sydney, 1885-95. 10 v., il., 9 x 6, cl.
- 3.2 **INSTITUTION OF SURVEYORS, NEW SOUTH WALES.** List of surveyors licensed to practice in New South Wales, 1899. Sydney, 1899. 16 pp., 7 x 5, pap.
- 3.1 —The Surveyor: The journal of the Institution; 1888-99 (v. 1-12). Sydney, 1888-99. 12 v., 10 x 6, unbound.
- 1.1 **ROYAL SOCIETY OF NEW SOUTH WALES.** Journal and proceedings; 1876-99 (v. 10-33). Sydney, 1877-1900. 24 v., il., pl., 9 x 6, cl.
- 4.2 **VICTORIAN INSTITUTE OF SURVEYORS.** Intercolonial conference of surveyors: Report and proceedings, 1892. Melbourne, 1892. 23 pp., 13 x 8, pap.
- 4.1 —Transactions and proceedings; 1885-91 (v. 3). Melbourne, 1891. 1 v., il., pl., 9 x 6, cl.



# PERIODICALS.

## PERIODICALS--NORTH AMERICA.

### Ta2 MEXICO.

- 1 ANALES DEL MINISTERIO DE FOMENTO DE LA REPÚBLICA MEXICANA (monthly); 1877-80 (v. 1-4). Note: Since 1879 issued yearly. México, 1877-81. 4 v., il., 9 x 6, unbound.
- 3 EL ARTE Y LA CIENCIA (monthly); 1899 (v. 1). Méjico, 1899. 1 v., il., 14 x 10, unbound.
- 2 EL MINERO MEXICANO (weekly); 1878-79, '81-82 (v. 5-6, 8-9). Note: v. 5, 8, 9 (1878, '81, '82) incomplete. Mexico, 1878-82. 4 v., 13 x 8, unbound.

### Ta3 UNITED STATES.

- 6 AMERICAN ARCHITECT AND BUILDING NEWS (weekly); 1876-June, '99 (v. 1-64). Note: v. 3 (Jan.-June, 1878) incomplete. Bost., 1876-99. 64 v. in 45, il., pl., 13 x 9, 1½ mor.
- 108 AMERICAN CHEMIST (monthly); July, 1872-Dec., '73, Aug., '76-Mar., '77 (v. 3-4, 7). Note: Each volume incomplete. N. Y., 1872-77. 3 v., 14 x 10, unbound.
- 18 AMERICAN ENGINEER (weekly); 1880-92 (v. 1-23). Note: Prior to 1882 published monthly. Ceased publication 1892. v. 33 (1892) incomplete. Chic., 1880-92. 23 v., 14 x 11, unbound.
- 53 AMERICAN ENGINEER AND RAILROAD JOURNAL (monthly); 1832-67, '87-99 (v. 1-40, 61-73). Note: Established in 1832 as *American Railroad Journal and Advocate of Internal Improvements*; name changed in 1838 to *Railroad Journal and Mechanics' Magazine*; in 1845 to *Railroad Journal and General Advertiser*; in 1848 to *Railroad Journal and Iron Manufacturers' and Mining Gazette*; in 1887 consolidated with *Van Nostrand's Engineering Magazine*, under the title *Railroad and Engineering Journal*; Jan., 1893 name changed to *American Engineer and Railroad Journal*; Jan., 1896 consolidated with *National Car and Locomotive Builder*, with title *American Engineer, Car Builder and Railroad Journal*; Jan., 1899 present title resumed. v. 7-15 is v. 1-9 of new ser. (1832-42); v. 16-18 is v. 1-2 of 3d ser. (1843-44); v. 19-40 is v. 1-23 of 2d quarto ser. N. Y., 1832-99. 53 v. in 51, 9 x 6, 13 x 9, 12 x 8, unbound.
- 63 AMERICAN GAS LIGHT JOURNAL (weekly); 1872-June, 1900 (v. 17-72). Note: v. 17-19, 23-25 (1872, '73, July-Dec., '75, '76) incomplete; v. 20, 29 (Jan.-June, 1874, July-Dec., '78) wanting. N. Y., 1872-1900. 54 v., 13 x 10, unbound.
- 14 AMERICAN JOURNAL OF SCIENCE AND ARTS (bi-monthly); conducted by Benjamin Silliman; 1835-37, '51-55 (ser. 1, v. 28-33; ser. 2, v. 11-20). Note: Ser. 1 published quarterly; ser. 2, Nos. 47, 48, 56, 59, 60 (Sept., Nov., 1853; Mar., Sept., Nov., '55) wanting. New Haven, 1835-55. 16 v., il., 9 x 6, unbound.
- 110 AMERICAN MACHINIST (weekly); Dec., 1877-83 (v. 1-6). Note: v. 1-2 (1877-79) incomplete. N. Y., 1877-83. 6 v., il., 15 x 11, unbound.
- 60 AMERICAN MANUFACTURER AND IRON WORLD (weekly); 1876-June, 1900 (v. 12-66). Note: v. 12, 13, 21, 26, 27 incomplete; v. 14, 16-20, 22, 23 wanting. Pittsburgh, 1876-1900. 47 v., 13 x 9, 17 x 13, unbound.
- 53 AMERICAN RAILROAD JOURNAL AND ADVOCATE OF INTERNAL IMPROVEMENTS; 1832-67 (v. 1-40). See *American Engineer and Railroad Journal*.
- 37 ANNALS OF HYGIENE (monthly); July, 1886-May, '87 (v. 1, No. 7-v. 2, No. 5). Phil., 1886-87. 2 v., 10 x 6, unbound.
- 51 ANNALS OF SCIENCE (bi-monthly); being a record of the inventions and improvements in applied science; conducted by Hamilton A. Smith; v. 1. Cleveland, 1852-53. 1 v., il., 10 x 6, ¾ sh.
- 10 APPLETONS' MECHANICS' MAGAZINE AND ENGINEERS' JOURNAL (monthly); 1851-53 (v. 1-3). N. Y., 1852-54. 3 v., il., 9 x 6, 12 x 9, 1½ sh.
- 21 ARCHITECT, THE; Jan.-Dec., 1871. Note: Text wanting. no place, 1871. 1 v., il., 13 x 9, ¾ mor. no title-page.

ARCHITECTS' AND BUILDERS' MAGAZINE. See *Architecture and Building*.

Ta3 UNITED STATES—(*Continued*).

- 112 **ARCHITECTURAL REVIEW** (8 Nos. per year); 1891-94 (v. 1-3). Note: Formerly published by the Massachusetts Institute of Technology under the title *Technology Architectural Review*, which see. v. 3 (1894) incomplete. Bost., 1891-94. 3 v., 14 x 11, unbound.
- 71 **ARCHITECTURE AND BUILDING** (weekly); 1890-Aug., '99 (v. 12-31). Note: Since Aug. 5th, 1899 incorporated with the *Builders' Magazine* and published monthly under the title *Architects' and Builders' Magazine*. N. Y., 1890-99. 20 v., 14 x 9, unbound.
- 64 **ARMY AND NAVY JOURNAL** (weekly); 1878-Aug., 1900 (v. 15-37). Note: v. 15, 16, 27 (1878, '79, '90) incomplete. N. Y., 1878-1900. 23 v., 16 x 11, unbound.
- 96 **BOOK REVIEWS** (monthly); Mar., 1893-Dec., '99 (v. 1-7). N. Y., 1893-99. 7 v., 9 x 6, unbound.
- 58 **BUILDER AND WOOD WORKER** (monthly); Dec., 1891-Feb., '93 (v. 27-29). Note: v. 27, Nos. 1-11; v. 29, Nos. 3-12 wanting. N. Y., 1891-93. 3 v., 14 x 11, unbound.
- 89 **BUILDING** (weekly); 1886-89 (v. 4-11). N. Y., 1886-89. 8 v., 14 x 9, unbound.
- 105 **BUILDING ADVERTISER** (monthly); 1889 (v. 1). Note: Incomplete. San Fran., 1889. 1 v., 13 x 10, unbound.
- 28 **BULLETIN OF THE UNIVERSITY OF WISCONSIN, ENGINEERING SER.;** 1894-96 (v. 1). Madison, 1894-96. 1 v., il., 10 x 6, unbound.
- 101 **CALIFORNIA ARCHITECT AND BUILDING NEWS** (monthly); 1898-99 (v. 19-20). Note: v. 19, Nos. 1, 4 (Jan., Apr., 1898) wanting. San Fran., 1898-99. 2 v., 14 x 10, unbound.
- 8 **CASSIER'S MAGAZINE** (monthly); 1891-Oct., 1900 (v. 1-18). N. Y., 1891-1900. 18 v., il., por., 10 x 7, unbound.
- 99 **CITY GOVERNMENT** (monthly); 1898-99 (v. 4-7). Note: v. 5 (July-Dec., 1898) incomplete. N. Y., 1898-99. 4 v., 12 x 9, unbound.
- 17 **CITY RECORD** (daily); 1876-June, '77, 1884-86 (v. 4-v. 5, Pt. 2; v. 12-14). Note: v. 13, 14 (1885, '86) incomplete. N. Y., 1876-86. 5 v. in 9, 16 x 11, unbound. no title-page.
- 50 **COLBURN'S RAILROAD ADVOCATE** (weekly); May, 1855-56 (v. 2). N. Y., 1855-56. 1 v., 19 x 14,  $\frac{3}{4}$  ro.
- COLLIERY ENGINEER.** See *Mines and Minerals*.
- 24 **COMPASS, THE:** A monthly journal for engineers, surveyors, architects, draughtsmen, and students; 1891-94 (v. 1-3). N. Y., 1892-94. 3 v., il., 9 x 6, cl., unbound.
- 97 **COMPRESSED AIR** (monthly); Mar.-July, 1896 (v. 1). Note: Incomplete. N. Y., 1896. 1 v., 9 x 6, unbound.
- 44 **DIGEST OF PHYSICAL TESTS AND LABORATORY PRACTICE** (quarterly); 1896 (v. 1). Phil., 1896. 1 v., il., 9 x 6, pap.
- 67 **ELECTRIC POWER** (monthly); 1889-96 (v. 1-9). Note: v. 1, 4, 9 (1889, '92, '96) incomplete. N. Y., 1889-96. 9 v., 10 x 7, 12 x 9, unbound.
- 66 **ELECTRICAL ENGINEER** (weekly); 1890-May, '99 (v. 9-27). Note: In May, 1899 consolidated with *Electrical World*, the new publication being called *Electrical World and Engineer*. v. 22 (July-Dec., 1896) wanting. N. Y., 1890-99. 18 v., 12 x 9, unbound.
- 69 **ELECTRICAL ENTERPRISE** (weekly); 1891 (v. 2). N. Y., 1891. 1 v., 12 x 9, unbound.
- 73 **ELECTRICAL WORLD AND ENGINEER** (weekly); 1885-June, 1900 (v. 5-35). Note: Prior to May, 1899, title read *Electrical World*; at that date consolidated with *Electrical Engineer* under the present title. v. 11, 12, 14 (1888, July-Dec., '89) incomplete; v. 6-8, 10, 13 (July-Dec., 1885, '86, July-Dec., '87, Jan.-June, '89) wanting. N. Y., 1885-1900. 26 v., 13 x 10, unbound.
- 76 **ELECTRICITY** (weekly); July, 1894-1900 (v. 7-18). N. Y., 1894-1900. 12 v., 14 x 11, unbound.
- 4 **ENGINEERING AND MINING JOURNAL** (weekly); 1879-99 (v. 27-67). N. Y., 1879-99. 40 v. in 32, il., 13 x 10,  $\frac{3}{4}$  mor.
- 22 **ENGINEERING MAGAZINE** (monthly); 1891-Sept., 1900 (v. 1-19). N. Y., 1891-1900. 19 v., il., 10 x 7, unbound.
- 56 **ENGINEERING MECHANICS** (monthly); 1892-98. Note: Volume for 1894 incomplete. Phil., 1892-98. 7 v., 12 x 9, unbound.
- 2 **ENGINEERING NEWS AND AMERICAN RAILWAY JOURNAL** (weekly); Jan., 1879-June, '99 (v. 6-41). Note: Title of v. 6-9 (Jan., 1879-May, '82) reads *Engineering News*; v. 9-19 (May, 1882-Mar. 3d, '88), *Engineering News and American Contract Journal*. Since 1884 two volumes have been issued yearly. v. 6, 11 incomplete. N. Y., 1879-99. 36 v., il., 13 x 10,  $\frac{1}{2}$  mor.
- 2a — General index from Apr., 1874 to Dec. 27th, 1890, inclusive. N. Y., 1891. 6 + 118 pp., 9 x 6, pap.

**Ta3 UNITED STATES—(Continued).**

- 1 **ENGINEERING RECORD** (weekly); 1877-99 (v. 1-39). Note: Title of v. 1-3 (1877-Nov., '80) reads *The Plumber and Sanitary Engineer*; v. 4-14 (Dec., '80-Nov., '86), *Sanitary Engineer*; v. 14-16 (Nov., '86-Oct., '87), *Sanitary Engineer and Construction Record*; v. 16-23 (Oct., '87-Dec., '90), *Engineering and Building Record and Sanitary Engineer*. v. 1-3 (1877-80) incomplete. Published monthly prior to No. 3 of v. 7. N. Y., 1877-99. 39 v., il., 13 x 10,  $\frac{3}{4}$  mor.
- 1a —Index to matter pertaining to sewerage and sewage disposal in volumes 5-17, Dec., 1881-June, 1888; comp. by Dana C. Barber. N. Y., 1889. 149 pp., 9 x 6, cl.
- 1b —Public water supplies; their collection, storage, distribution, engineering, plant, purity and analysis: A digest and index to volumes 5-18 of the *Engineering and Building Record*; comp. by D. Walter Brown. N. Y., 1890. 242 pp., 9 x 6, bds.
- 43 **GOOD ROADS** (monthly); 1892-Mar., '95 (v. 1-7). Note: v. 5, No. 3; v. 6, No. 4 (Mar., Oct., 1894) wanting. Bost., 1892-95. 7 v., il., 9 x 6, pap.
- 13 **HUNT'S MERCHANTS' MAGAZINE AND COMMERCIAL REVIEW** (monthly); 1851-59 (v. 24-41). Note: v. 29, 31 (July-Dec., 1853, July-Dec., '54) wanting. N. Y., 1851-59. 16 v., 9 x 6,  $\frac{1}{2}$  skiv.
- 93 **INDUSTRIAL AMERICAN** (bi-monthly); 1891-92 (v. 1-2). Note: Incomplete. Lexington, N. Y., 1891-92. 2 v., 14 x 10, unbound.
- 65 **IRON AGE** (weekly); 1873-June, 1900 (v. 11-65). Note: v. 11, 17, 20, 23, 26, 29-30 (Jan.-June, 1873; Jan.-June, '76; July-Dec., '77; Jan.-June, '79; July-Dec., '80; '82) incomplete. v. 33 (Jan.-June, 1884) wanting. N. Y., 1873-1900. 54 v., 19 x 13, 13 x 9, unbound.
- 114 **IRON PRODUCTION AND UTILIZATION** (monthly); 1888-June, '90 (v. 11-15). Note: v. 15 (Jan.-June, 1890) incomplete. Phil., 1888-90. 5 v., 14 x 9, unbound.
- 75 **IRRIGATION AGE** (monthly); 1891-94 (v. 1-8). Note: v. 6-8 (July-Dec., 1893, '94) incomplete. Denver, 1891-94. 8 v., 14 x 10, unbound.
- 34 **JOURNAL OF SPECULATIVE PHILOSOPHY** (quarterly); 1884-85 (v. 18-19). N. Y., 1884-85. 2 v., 9 x 6,  $\frac{1}{2}$  mor.
- 23 **JOURNAL OF THE UNITED STATES ARTILLERY** (bi-monthly); 1892-June, 1900 (v. 1-13). Note: Published quarterly 1892-95. Fort Monroe, Va., 1892-1900. 13 v., il., 10 x 7, unbound.
- 12 **JOURNAL OF THE WORCESTER POLYTECHNIC INSTITUTE** (bi-monthly); Nov., 1897-July, '99 (v. 1-2). Worcester, 1898-99. 2 v., pl., 9 x 6, unbound.
- 11 **KANSAS UNIVERSITY QUARTERLY**; 1892-99 (v. 1-8). Lawrence, Kan., 1892-99. 8 v., il., pl., 10 x 6, unbound.
- 38 **LIBRARY JOURNAL** (monthly): Official organ of the Library Associations of America and of the United Kingdom; 1878-94 (v. 3-19). Note: v. 3, Nos. 2-8, 10; v. 4, No. 1 (Apr.-Oct., Dec., 1878; Jan., '79) wanting. N. Y., 1878-94. 17 v., 10 x 8, unbound.
- 77 **LIGHT, HEAT AND POWER** (monthly); 1885-June, '94 (v. 1-16). Note: v. 3 (1887) incomplete; v. 2, 13, 15 (1886, July-Dec., '92, July-Dec., '93) wanting. Phil., 1885-94. 13 v., 13 x 9, unbound.
- 45 **LITERARY NEWS**: A monthly journal of current literature; 1890-94 (new ser., v. 11-15). Note: v. 12, No. 7; v. 13, No. 12; v. 14, Nos. 7, 9, 10; v. 15, Nos. 3, 7 (July, 1891; Dec., '92; July, Sept., Oct., '93; Mar., July, '94) wanting. N. Y., 1890-94. 5 v., il., 10 x 7, unbound.
- 33 **LOCOMOTIVE, THE** (monthly); 1880-99 (new ser., v. 1-20). Hartford, 1880-99. 20 v., il., 9 x 6, unbound.
- 78 **LOUISIANA PLANTER** (weekly); 1890-June, 1900 (v. 4-24). New Orleans, 1890-1900. 21 v., 12 x 9, unbound.
- 120 **MACHINERY** (monthly); Sept., 1899-Aug., 1900 (v. 6). N. Y., 1899-1900. 1 v., 13 x 9, unbound.
- 7 **MAGAZINE OF AMERICAN HISTORY** (monthly); May, 1883-Dec., '89 (v. 9-22). Note: v. 9, Nos. 1-4 wanting. N. Y., 1883-89. 14 v., il., por., 10 x 7, unbound.
- 92 **MANUFACTURER** (monthly); 1882-85 (v. 3-10). Holyoke, 1882-85. 8 v., 12 x 9, unbound.
- 16 **MANUFACTURER AND BUILDER** (monthly); 1869-95 (v. 1-27). Note: v. 27 (1895) incomplete; v. 8 (1876) wanting. N. Y., 1869-95. 26 v., il., 13 x 10, cl.
- 57 **MANUFACTURERS' RECORD** (weekly); 1892-July, 1900 (v. 21-37). Balt., 1892-1900. 17 v., 15 x 9, unbound.
- 68 **MECHANICAL NEWS** (bi-monthly); 1882-93 (v. 12-23). Note: v. 12, 23 (1882-83, '93) incomplete. N. Y., 1882-93. 12 v., 11 x 8, unbound.
- 109 **MECHANICS** (monthly); 1882-84, '89-91 (v. 1-3, 5, 11-13). Note: At first published weekly; all volumes incomplete. Phil., 1882-91. 7 v., 12 x 9, unbound.
- 32 **METALLURGICAL REVIEW** (monthly); 1877-Apr., '78 (v. 1-2). Note: v. 2, Nos. 3-6 wanting. N. Y., 1877-78. 2 v., il., 9 x 6,  $\frac{1}{2}$  mor.
- 20 **METROPOLITAN MAGAZINE** (monthly); Jan.-June, 1839 (v. 7). Amer. ed. N. Y., 1839. 1 v., 10 x 6,  $\frac{3}{4}$  sh.



## Ta3 UNITED STATES—(Continued).

- 70 **MINES AND MINERALS** (monthly); Aug., 1891–July, 1900 (v. 12–20). Note: Published previous to Aug., 1899 as *Colliery Engineer*. Scranton, 1891–1900. 9 v., 12 x 9, 15 x 11, unbound.
- 95 **MODERN MACHINERY** (monthly); July, 1898–June, 1900 (v. 4–7). Chic., 1898–1900. 4 v., 11 x 8, unbound.
- 107 **MONTHLY BULLETIN OF THE FIDELITY AND CASUALTY CO. OF NEW YORK**; Nov., 1897–Dec., '99 (v. 3–4). Note: Volumes incomplete. N. Y., 1897–99. 2 v., 11 x 9, 10 x 7, unbound.
- 115 **MONTHLY SUMMARY OF COMMERCE AND FINANCE OF THE UNITED STATES**; July, 1892–June, '99. Wash., 1892–99. 7 v., 11 x 9, unbound.
- 91 **MONTHLY WEATHER REVIEW**; 1887–99. Note: v. 24 (1896) incomplete. Wash., 1887–99. 13 v., 12 x 10, unbound.
- 41 **MUNICIPAL AFFAIRS** (quarterly); 1897–99 (v. 1–3). Note: v. 1, Nos. 3–4 (Sept., Dec., 1897) wanting. N. Y., 1897–99. 3 v., 9 x 6, unbound.
- 55 **MUNICIPAL AND RAILWAY RECORD** (monthly); Dec., 1898–June, 1900 (v. 3–6). Note: v. 3, Nos. 1–5 wanting. N. Y., 1898–1900. 4 v., il., 13 x 10, unbound.
- 83 **NATIONAL CAR BUILDER** (monthly); 1880–83 (v. 11–14). Note: v. 11, 14 (1880, '83) incomplete. N. Y., 1880–83. 4 v., 13 x 10, unbound.
- 80 **NATIONAL PROVISIONER** (weekly); 1893–95 (v. 8–12). Note: v. 8 (1893) incomplete. N. Y., 1893–95. 5 v., 12 x 9, unbound.
- 104 **OFFICIAL GAZETTE OF THE UNITED STATES PATENT OFFICE** (weekly); 1872–June, 1900 (v. 1–91). Note: v. 13 (Jan.–June, 1878) incomplete. v. 6–7, 10–11, 14–20, 44–51 (July, 1874–June, '75; July, '76–June, '77; July, '78–Dec., '81; July, '88–June, '90) wanting. Wash., 1872–1900. 72 v., il., 11 x 7, unbound.
- 98 **OUR ANIMAL FRIENDS** (monthly); Sept., 1896–Aug., 1900 (v. 24–27). Note: v. 25, No. 5; v. 26, No. 2 (Jan., Oct., 1898) wanting. N. Y., 1896–1900. 4 v., 11 x 9, unbound.
- 100 **OUR DUMB ANIMALS** (monthly); 1897–98 (v. 29–32). Note: v. 30–32 (1898–99) incomplete. Bost., 1897–99. 4 v., 12 x 10, unbound.
- 39 **PAVING AND MUNICIPAL ENGINEERING** (monthly); 1893–96 (v. 4–11). Note: v. 4, Nos. 2, 3 (Feb., Mar., 1893) wanting. Indianapolis, 1893–96. 8 v., il., 10 x 7, unbound.
- 46 **POLYTECHNIC, THE** (monthly); Nov., 1889–June, '99 (v. 6–15). Note: No numbers published during July and Aug. v. 6, Nos. 1–2, 4–10; v. 7, Nos. 1–3 (Sept.–Oct., Dec., 1889; Jan.–Nov., '90) wanting. Troy, 1889–99. 10 v., 11 x 8, unbound.
- 84 **POLYTECHNIC REVIEW** (weekly); 1876–78 (v. 1–6). Note: In Jan., 1879 incorporated with the *Engineering and Mining Journal*; each volume incomplete. Phil., 1876–78. 6 v., 16 x 12, unbound.
- 29 **POPULAR SCIENCE MONTHLY**; 1872–79 (v. 1–v. 16, No. 2). Note: Nos. 29, 39–41, 55 (Sept., 1874, July–Sept., '75, Nov., '76) wanting. N. Y., 1872–79. 16 v., il., 9 x 6, unbound.
- 30 — Supplement (monthly); 1877–78 (Nos. 2–20). Note: Nos. 9, 11, 13, 17 (Jan., Mar., May, Sept., 1878) wanting. N. Y., 1877–78. 15 v., 9 x 6, unbound.
- 103 **PUBLIC IMPROVEMENTS** (semi-monthly); May, 1899–Apr., 1900 (v. 1–2). Note: Incomplete. N. Y., 1899–1900. 2 v., 12 x 9, unbound.
- 79 **RAILROAD CAR JOURNAL** (monthly); 1893–99 (v. 3–9). Note: v. 3 (1893) incomplete. N. Y., 1893–99. 7 v., 12 x 9, unbound.
- 3 **RAILROAD GAZETTE** (weekly); 1871–98 (v. 3–30). Note: v. 3–4 incomplete. N. Y., 1871–98. 23 v., il., 15 x 11,  $\frac{3}{4}$  mor.
- 62 **RAILWAY AGE** (weekly); 1878–June, 1900 (v. 3–29). Note: v. 3, 4, 6, 14 (1878, '79, '81, '89) incomplete; v. 20 (1895) wanting. Chic., 1878–1900. 26 v., 15 x 11, unbound.
- 74 **RAILWAY MASTER MECHANIC** (monthly); 1886–99 (v. 9–23). Note: v. 10–12 (1887–89) wanting. Chic., 1886–99. 12 v., 15 x 11, 10 x 7, unbound.
- 54 **RAILWAY MONITOR**: A monthly journal of general railroad intelligence; 1874 (v. 2). N. Y., 1874. 1 v., 13 x 9,  $\frac{3}{4}$  ro.
- 86 **RAILWAY REPORTER** (monthly); 1880 (v. 1). Pittsburg, 1880. 1 v., 13 x 9, unbound.
- 61 **RAILWAY REVIEW** (weekly); 1878–99 (v. 18–39). Note: v. 18–21, 30–31, 33–37 (1878–81, '90–91, '93–97) incomplete. Chic., 1878–99. 22 v., 16 x 11, unbound.
- 59 **RAILWAY WORLD** (weekly); 1876–99 (v. 2–25). Note: v. 2–5, 9, 21–23 (1876–79, '83, '95–97) incomplete. Phil., 1876–99. 24 v., 13 x 9, unbound.
- 121 **ROSE TECHNIC** (monthly); Oct., 1897–June, '99 (v. 7–8). Terre Haute, 1897–99. 2 v., 11 x 8, unbound.
- 82 **SANITARIAN** (weekly); 1883 (v. 9). N. Y., 1883. 1 v., 11 x 8, unbound.
- 52 **SANITARY ERA; OR, PROGRESSIVE HEALTH JOURNAL** (semi-monthly); 1887–89 (v. 2–3). N. Y., 1887–89. 2 v., 10 x 8, cl.
- 9 **SCHOOL OF MINES QUARTERLY**: A journal of applied science; 1880–July, '99 (v. 1–20). Note: v. 1, Nos. 1, 4 (Nov., 1879, May, '80) wanting. N. Y., 1880–99. 20 v., il., 9 x 6, unbound.

**Ta3 UNITED STATES—(Continued).**

- 31 **SCIENCE** (weekly): An illustrated journal; 1883-June, '91 (v. 1-17). Note: v. 17 Jan.-June, 1891 incomplete. Cambridge, 1883-91. 17 v., il., 10 x 7, unbound.
- 116 **SCIENTIFIC AMERICAN** (weekly): An illustrated journal of art, science, and mechanics; May 1850-June, 1900 (old ser., v. 5-14; new ser., v. 1-82). Note: Old ser., v. 5 (1850); new ser., v. 34, 35, 39 (1876, July-Dec., '78) incomplete. Old ser., v. 7-9, 12 (Sept., 1851-54, Sept., '56-57); new ser., v. 13-14, 20-33, 36-38, 76 (July, 1865-June, '66, '69-75, '77, Jan.-June, '78, Jan.-June, '97) wanting. N. Y., 1850-1900. 68 v. in 60, il., 16 x 11,  $\frac{1}{2}$  sh.
- 118 — Building edition (monthly); July, 1889-99 (v. 8-27). Note: v. 27, Nos. 4-6 wanting. N. Y., 1889-99. 20 v., il., 16 x 11, unbound.
- 117a — Supplement: Catalogue of valuable papers. N. Y., 1897. 2 v., 11 x 8, pap., cl.
- 117 — Supplement (weekly); 1876-June, 1900 (v. 1-49). Note: v. 3-11, 13, 15, 19-20 (1877-June, '81, Jan.-June, '82, Jan.-June, '83, '85) wanting. N. Y., 1876-1900. 36 v., il., 16 x 10, unbound.
- 119 **STEAM ENGINEERING** (monthly); Sept., 1899-1900 (v. 10). N. Y., 1899-1900. 1 v., il., 13 x 9, unbound.
- 36 **STEVENS INDICATOR** (quarterly); 1888-99 (v. 5-16). Note: v. 5, Nos. 1-3; v. 16, No. 2 (Jan.-July, 1888, Apr., '99) wanting. Hoboken, 1888-99. 12 v., il., 10 x 7, unbound.
- 40 **STONE**: An illustrated magazine issued monthly; Feb.-Apr., Je., Jl., Oct., Dec., 1893; Jan., Mar., '94-Apr., '95; Aug., Nov., '97; May, '99-June, 1900 (v. 6, Nos. 3-5; v. 7, Nos. 1, 2, 5; v. 8, Nos. 1-2, 4-6; v. 9-v. 10, No. 5; v. 15, Nos. 3, 6; v. 18, No. 6; v. 19-20). N. Y., 1893-1900. 9 v., il., 10 x 7, unbound.
- 94 **STOWELL'S PETROLEUM REPORTER** (monthly); 1890-93 (v. 19-22). Pittsburg, 1890-93. 4 v., 12 x 9, unbound.
- 47 **STREET RAILWAY JOURNAL** (monthly); Nov., 1884-99 (v. 1-15). N. Y., 1884-99. 15 v., il., 12 x 9,  $\frac{1}{2}$  ro. no title-page.
- 25 **TECHNIC, THE**: The annual of the Engineering Society of the University of Michigan; 1888-94 (old ser., Nos. 4-10). Note: Nos. 8-9 (1892-93) wanting. Ann Arbor, 1888-94. 5 v., il., 9 x 6, unbound.
- 81 **TECHNIKER, DER** (semi-monthly); 1881-87 (v. 4-9). N. Y., 1881-87. 6 v., 14 x 10, unbound.
- 26 **TECHNOGRAPH, THE**; published annually by the Association of Engineering Societies of the University of Illinois; 1889-1900 (Nos. 4-14). Note: Nos. 7, 10, 11, 13 (1892, '95-97, '98-99) wanting. Champaign, 1890-1900. 7 v., il., 9 x 6, unbound.
- 87 **TECHNOLOGIST** (monthly); 1870 (v. 1). N. Y., 1870. 1 v., 14 x 9, unbound.
- 111 **TECHNOLOGY ARCHITECTURAL REVIEW** (monthly); 1888-90 (v. 1-3). Note: Published by the Massachusetts Institute of Technology. Continued as *Architectural Review*. Bost., 1888-90. 3 v., 14 x 11, unbound.
- 35 **TECHNOLOGY QUARTERLY**; 1887-99 (v. 1-12). Bost., 1887-99. 12 v., il., 10 x 7, unbound.
- 48 **TECHNOLOGY REVIEW** (quarterly); 1899 (v. 1). Bost., 1899. 1 v., il., 10 x 7, unbound.
- 27 **TRANSIT, THE**; published semi-annually by the State University of Iowa; ed. by the Engineering Society; Dec., 1890, Jan., '95, June, '96 (v. 1, No. 2; v. 3, No. 1; v. 4, No. 1). Iowa City, 1890-96. 3 v., il., 9 x 6, unbound.
- 85 **TRAVELLERS' RECORD** (monthly); 1886-99 (v. 22-35). Note: v. 22 (1886) incomplete; v. 24, 27, 29-32 (1888, '91, '93-96) wanting. Hartford, 1886-1900. 8 v., 12 x 10, unbound.
- 49 **UNITED STATES GOVERNMENT PUBLICATIONS MONTHLY CATALOGUE**; 1891-93 (v. 7-9). Wash., 1891-93. 3 v., 10 x 6, unbound.
- 19 **UNIVERSITY OF TENNESSEE RECORD** (bi-monthly); 1898-99 (Nos. 1-11). Knoxville, 1898-99. 2 v., il., 9 x 6, unbound.
- 5 **VAN NOSTRAND'S ENGINEERING MAGAZINE** (monthly); 1869-86 (v. 1-35). Note: In 1887 consolidated with the *American Railroad Journal* under the title *Railroad and Engineering Journal*, now *American Engineer and Railroad Journal*. N. Y., 1869-86. 35 v. in 36, il., 10 x 6,  $\frac{1}{2}$  cf.
- 88 **WATER AND GAS JOURNAL** (monthly); 1883 (v. 1). Phil., 1883. 1 v., 14 x 10, unbound.
- 15 **WORKSHOP, THE**: A monthly journal devoted to progress of the useful arts; 1868-70 (v. 1-3). N. Y., 1868-70. 3 v., il., 12 x 10,  $\frac{1}{2}$  mor.

**Ta4 WEST INDIES.**

- 1 **GACETA DE LOS FERROCARRILES DE LA ISLA DE CUBA** (weekly); Apr., 1894-Mar., '95 (v. 2-3). Note: Incomplete. Habana, 1894-95. 2 v., 13 x 9, unbound.

**Tb1 ARGENTINE REPUBLIC.**

- 2 **INGENIERIA, LA** (semi-monthly): Órgano oficial del Centro Nacional de Ingenieros; Aug., 1897-Dec., '99 (v. 1-3). Note: Prior to Apr., 1899 published monthly; v. 2, Nos. 6-10 (Jan.-May, 1898) wanting. Buenos Aires, 1897-99. 3 v., il., 14 x 10, unbound.
- 1 **INGENIERO CIVIL, EL** (semi-monthly): Órgano oficial de la Sociedad de Ingenieros Civiles de la República Argentina; Mar., 1888-Feb., '89 (v. 1). Note: No. 16 (Oct 15th, 1888) wanting. Buenos Aires, 1888-89. 1 v., 15 x 11, unbound.

**Tb3 BRAZIL.**

- 1 **REVISTA DOS CONSTRUTORES** (monthly); 1886 (v. 1). Rio de Janeiro, 1886. 1 v., 15 x 11, unbound.

**Tb5 COLOMBIA.**

- 1 **ANALES DE INGENIERÍA** (monthly): Órgano de la Sociedad Colombiana de Ingenieros; 1887-98 (v. 1-10). Bogota, 1888-98. 10 v., il., 10 x 6, unbound.

**Tb6 ECUADOR.**

- 1 **ANALES DE LA UNIVERSIDAD DE QUITO** (monthly); Apr., 1893-Mar., '95 (v. 8-12). Quito, 1893-95. 5 v., 10 x 7, unbound.

**Tb9 PERU.**

- 1 **ANALES DE CONSTRUCCIONES CIVILES Y DE MINAS DEL PERU**; publicados por la Escuela de Ingenieros de Lima; 1880-87 (v. 1-6). Note: Published irregularly. Lima, 1880-87. 6 v., pl., 9 x 6, unbound.
- 2 **ANALES DEL CUERPO DE INGENIEROS DEL PERU** (semi-annually); 1874 (v. 1-2). Lima, 1874. 2 v., pl., 11 x 7, unbound.
- 3 **BOLETIN DE MINAS, INDUSTRIA Y CONSTRUCCIONES** (monthly); publicado por la Escuela Especial de Ingenieros; 1885-99 (v. 1-15). Note: v. 4-6, 9-12 (1888-90, '93-96) incomplete; v. 13-14 (1897-98) wanting. Lima, 1885-1900. 13 v., 14 x 9, unbound.

**Tb11 VENEZUELA.**

- 1 **REVISTA CIENTIFICA MENSUAL DE LA UNIVERSIDAD DE VENEZUELA**; 1888-89 (v. 1-2). Note: Incomplete. Caracas, 1888-89. 2 v., 13 x 10, unbound.

## PERIODICALS—EUROPE.

**Td1 AUSTRIA.**

- 2 **ALLGEMEINE BAUZEITUNG MIT ABBILDUNGEN** (bi-monthly); 1874-75 (v. 39-40). Wien, 1874-75. 2 v., il., 18 x 12, bds.
- 1 **MITTHEILUNGEN ÜBER GEGENSTÄNDE DES ARTILLERIE- UND GENIE- Wesens** (monthly); 1877-99. Note: v. for 1881 and 1884, Nos. 1-5, 7, 8, 12 wanting. Wien, 1877-99. 22 v., il., 10 x 6, unbound.
- 4 **STUMMER'S INGENIEUR** (bi-monthly): Internationales Organ für das Gesamtgebiet des technischen Wissens; 1877 (v. 5). Wien, 1877. 1 v., 14 x 11, unbound.
- 3 **WIENER FEUERWEHR-ZEITUNG** (semi-monthly): Populäre Blätter für Feuerlöschwesen, Wasserleitungs- und Pumpen-Anlagen; redigirt von Moriz Willfort; 1874-75. Wien, 1874-75. 2 v., il., pl., 13 x 10, bds.

**Td2 BELGIUM.**

- 1 **ANNALES DES TRAVAUX PUBLICS DE BELGIQUE** (bi-monthly); 1896-99 (ser. 2, v. 1-4). Bruxelles, 1896-99. 4 v., il., 10 x 6, unbound.

**Td3 DENMARK.**

- 1 **INGENIOREN** (semi-weekly); udgivet af Dansk Ingeniorforening; 1895-96, '98-99 (v. 4-5, 7-8). Note: v. 8 (1899) incomplete. Kobenhavn, 1895-99. 4 v., 13 x 9, unbound.

**Td4 FRANCE.**

- 3 **ANNALES DES MINES** (semi-annually); 1841 (ser. 3, v. 19-20). Paris, 1841. 2 v., 8 x 5,  $\frac{3}{4}$  mor.
- 7.3 **ANNALES DES PONTS ET CHAUSSÉES**: Lois, décrets, arrêtés et autres actes concernant l'administration et le personnel des Ponts et Chaussées et documents administratifs concernant les pays étrangers (monthly); 1841, '44-48, '66-73, '94-99 (ser. 2, v. 1, 5-8; ser. 4, v. 6-10; ser. 5, v. 1-3; ser. 7, v. 7-9). Paris, 1841-99. 17 v., 9 x 6,  $\frac{3}{4}$  mor.



**Td4 FRANCE—(Continued).**

- 7.1 —Mémoires et documents relatifs à l'art des constructions et au service de l'ingénieur (quarterly); 1831-99 (ser. 1, 1831-40; ser. 2, 1841-50; ser. 3, 1851-60; ser. 4, 1861-70; ser. 5, 1871-80; ser. 6, 1881-90; ser. 7, 1891-99). Paris, 1831-99. 138 v. in 136, 9 x 6,  $\frac{3}{4}$  sh.,  $\frac{3}{4}$  mor.
- 7.2 —Personnel (yearly); 1845-1900. Note: v. for 1847, '49-50, '52-58, '61-65, '67-68 wanting. Paris, 1845-1900. 39 v., 9 x 6,  $\frac{3}{4}$  mor., pap.
- 2 **ANNALES DU CONSERVATOIRE IMPÉRIAL DES ARTS ET MÉTIERS** (quarterly); 1861-79 (v. 1-11). Note: v. 11, Nos. 2-4 wanting. Paris, 1861-79. 11 v., 11 x 6, unbound.
- 12 **ANNALES INDUSTRIELLES** (weekly); 1876 (v. 8). Paris, 1876. 1 v., 13 x 9, unbound.
- 1 **ANNALES MARITIMES ET COLONIALES**; 1846 (v. 94-98). Paris, 1846. 5 v., 8 x 5,  $\frac{1}{2}$  skiv.
- 11 **BULLETIN DU CANAL INTEROCÉANIQUE** (semi-monthly); 1880-88, '92 (v. 1-9, 13). Note: Each volume incomplete. Paris, 1880-92. 10 v., 12 x 9, unbound.
- 13 **CHARBON, LE** (weekly): Journal des mines et de toutes les industries métallurgiques; 1879 (v. 6-7). Paris, 1879. 2 v., 12 x 9, unbound.
- 9 **EXPORTATION FRANÇAISE, L'** (monthly): Journal du commerce maritime et des colonies; 1886-88 (v. 11-13). Note: Each volume incomplete. Paris, 1886-88. 3 v., 11 x 8, unbound.
- 5 **GÉNIE CIVIL, LE**: Revue générale hebdomadaire des industries françaises et étrangères; Nov., 1880-Apr., 1900 (v. 1-36). Note: From 1880 to Oct., 1883 published semi-monthly. Paris, 1881-1900. 36 v. in 28, 11, 14 x 11,  $\frac{1}{2}$  ro.
- 17 **MÉTALLURGIE, LA, ET LA CONSTRUCTION MÉCANIQUE** (weekly); 1879 (v. 10). Paris, 1879. 1 v., 15 x 11, unbound.
- 6 **NOUVELLES ANNALES DE LA CONSTRUCTION** (monthly); 1855-99 (v. 1-21; ser. 3, v. 1-8; ser. 4, v. 1-10; ser. 5, v. 1-6). Note: ser. 1, v. 6, No. 2; ser. 3, v. 2-5 (Feb., 1860, '77-80) wanting. Paris, 1855-99. 41 v. in 33, 11, 15 x 11,  $\frac{1}{2}$  mor.
- 4 **PORTEFEUILLE ÉCONOMIQUE DES MACHINES DE L'OUTILLAGE ET DU matériel relatifs à la construction, aux chemins de fer, aux routes, aux mines, à la navigation, à la télégraphie, etc.** (monthly); 1861, '81-99 (v. 6; ser. 3, v. 6-16; ser. 4, v. 1-8). Paris, 1861-99. 20 v. in 16, 11, 15 x 11,  $\frac{1}{2}$  mor.
- 16 **REVUE DE MÉCANIQUE** (monthly); 1897-June, 1900 (v. 1-6). Note: v. 3 (July-Dec., 1898) incomplete. Paris, 1897-1900. 6 v., 13 x 9, unbound.
- 15 **REVUE GÉNÉRALE DES CHEMINS DE FER ET DES TRAMWAYS** (monthly); 1878-99 (v. 1-22). Paris, 1878-99. 22 v., 13 x 9, unbound.
- 10 **REVUE GÉNÉRALE DES SCIENCES PURES ET APPLIQUÉES** (semi-monthly); 1892-98 (v. 3-9). Paris, 1892-98. 7 v., 12 x 8, unbound.
- 8 **REVUE TECHNIQUE** (semi-monthly): Annales des travaux publics et des chemins de fer; 1880-99 (v. 1-20). Paris, 1880-99. 20 v., 14 x 11, unbound.
- 14 **REVUE UNIVERSELLE DES INVENTIONS NOUVELLES** (monthly); 1892-93. Note: Volume for 1893 incomplete. Paris, 1892-93. 2 v., 11 x 8, unbound.
- 18 **SCIENCE ET PROGRÈS** (semi-monthly): Revue universelle; 1892-93 (v. 5-6). Note: Prior to 1893 published monthly. Both volumes incomplete. Paris, 1892-93. 2 v., 11 x 8, unbound.

**Td5 GERMANY.**

- 2 **ANNALEN DER PHYSIK UND CHEMIE**; herausgegeben von J. C. Poggendorff (monthly); 1846-49 (v. 67-77). Note: v. 77 incomplete. v. 73-75 (1848) wanting. Leipzig, 1846-49. 8 v. in 7, 11, 9 x 5,  $\frac{1}{2}$  skiv.
- 5 **ARCHIV FÜR EISENBahnwesen** (semi-monthly); Mar., 1890-Dec., '93, Jan.-Feb., '94. Note: Pt. 1, 1890; Pts. 5-6, '91 wanting. Ber., 1890-94. 5 v., 9 x 6, unbound.
- 11 **CENTRALBLATT DER BAUVERWALTUNG** (weekly); herausgegeben im Ministerium der öffentlichen Arbeiten; 1881-96 (v. 1-16). Ber., 1881-96. 16 v., 14 x 10, unbound.
- 9 **CIVILINGENIEUR** (8 Nos. per year): Organ des Sächsischen Ingenieur- und Architekten-Vereins; 1884-96 (v. 30-42). Note: v. 30 (1884) incomplete. Leipzig, 1884-96. 13 v., 12 x 9, unbound.
- 15 **DEUTSCHE ALLGEMEINE POLYTECHNISCHE ZEITUNG** (weekly); 1880, '82 (v. 8, 10). Ber., 1880-82. 2 v., 15 x 10, unbound.
- 10 **DEUTSCHE BAUZEITUNG** (semi-weekly): Verkündigungsblatt des Verbandes deutscher Architekten- und Ingenieur-Vereine; 1877-99 (v. 11-33). Note: v. 11, 23 (1877, '89) incomplete. Ber., 1877-99. 23 v., 13 x 9, unbound.
- 13 **DEUTSCHE INDUSTRIE-ZEITUNG** (weekly); June-Dec., 1865 (Nos. 23-52). Chemnitz, 1865. 1 v., 13 x 10, unbound.
- **DINGLER'S POLYTECHNISCHE JOURNAL**. See Polytechnisches Journal.
- 8 **GESUNDHEITS-INGENIEUR** (bi-monthly); 1893-94 (v. 16-17). München, 1893-94. 2 v., 13 x 10, unbound.
- 17 **JOURNAL FÜR DIE BAUKUNST** (quarterly); im zwanglosen heften, herausgegeben by A. L. Crelle; 1850-51 (v. 29-30). Ber., 1850-51. 2 v., 11, 10 x 8,  $\frac{3}{4}$  skiv.

Td5 GERMANY—(*Continued*).

- 7 MITTHEILUNGEN AUS DEN KÖNIGLICHEN TECHNISCHEN VERSUCHS-  
anstalten zu Berlin; herausgegeben im Auftrage der Königlichen Aufsichts-  
Kommission (quarterly); v. 3-4. Ber., 1885-86. 2 v., il., pl., tab., 11 x 7, unbound.
- 1 POLYTECHNISCHES JOURNAL (semi-monthly); Mar., 1870-Sept. '73 (v. 195-209).  
Note: v. 195, Nos. 1-4; v. 196-199; v. 200, Nos. 1, 3, 6; v. 201, Nos. 1-2, 4-5; v. 202,  
No. 6; v. 203, Nos. 1-2; v. 205, Nos. 4-5; v. 206, Nos. 2, 5, 6; v. 209, No. 4 (Jan.-  
Feb., 1870; Apr., 1870-Mar., 1871; Apr. No. 1, May No. 1, June No. 2, July, Aug.  
No. 2, Sept. No. 1, Dec. No. 2, 1871; Jan., Aug. No. 2, Sept. No. 1, Oct. No. 2, Dec.,  
1872; Aug. No. 2, 1873) wanting. Augsburg, 1870-73. 11 v., il., 9 x 6, unbound.
- 12 SCHILLING'S JOURNAL FÜR GASBELEUCHTUNG UND WASSERVERSOR-  
gung: Organ des Deutschen Vereins von Gas- und Wasserfachmännern; 1897-98  
(v. 40-41). Note: v. 41 (1898) incomplete. München, 1897-98. 2 v., 14 x 10, un-  
bound.
- 4 STAHL UND EISEN (semi-monthly): Zeitschrift für das deutsche Eisenhütten-  
wesen; 1890-99 (v. 10-19). Note: From 1890-91 issued monthly. Düsseldorf,  
1890-99. 10 v., il., 11 x 7, unbound.
- 16 UNIVERSAL-INDEX DER INTERNATIONALEN FACHLITERATUR (weekly);  
1894 (v. 1). Note: Incomplete. Leipzig, 1894. 1 v., 12 x 8, unbound.
- 14 ZEITSCHRIFT FÜR BAUKUNDE (8 Nos. per year); 1878-84 (v. 3-7). München,  
1878-84. 7 v., 14 x 10, unbound.
- 3 ZEITSCHRIFT FÜR BAUWESEN (quarterly); 1876-99 (v. 26-49). Note: v. 46 (1896)  
incomplete; v. 27-30, 47-48 (1877-80, '97-98) wanting. Ber., 1876-99. 18 v. in 24,  
il., 14 x 10 (atlas 18 x 12),  $\frac{1}{2}$  mor.

## Td6 GREAT BRITAIN.

- 42 ARCHITECTURAL MAGAZINE AND JOURNAL OF IMPROVEMENT IN ARCHI-  
tecture, building, and furnishing, and in the various arts and trades connected  
therewith; conducted by J. C. Loudon (monthly); 1834-38 (v. 1-5). Lond., 1834-  
38. 5 v., il., 9 x 6,  $\frac{3}{4}$  mor.
- 14 ARTIZAN, THE (monthly); 1851-59 (v. 9-17). Lond., 1851-59. 9 v., il., 11 x 9,  $\frac{3}{4}$  mor.
- 15 ATHENÆUM (weekly); Mar., 1850-June, '51. Note: Volumes incomplete. Lond.,  
1851(?) 2 v. in 1, 11 x 9,  $\frac{1}{2}$  sh.
- 33 BRITISH ARCHITECT AND NORTHERN ENGINEER (weekly); 1878 (v. 9). Man-  
chester, 1878. 1 v., 15 x 10, unbound.
- 7 BUILDER: An illustrated weekly magazine; 1860-61, '73-June, '99 (v. 18-19, 31-76).  
Note: v. 32 (1874) incomplete. Lond., 1860-99. 48 v. in 49, il., 13 x 9,  $\frac{1}{2}$  mor.
- 12 BUILDING NEWS (weekly); 1870-71 (v. 19-20). Note: Plates only. Lond., 1870-71.  
2 v., pl., 13 x 8,  $\frac{1}{2}$  ro.
- 6 BUILDING NEWS AND ENGINEERING JOURNAL (weekly); 1873-June, '99 (v. 24-  
76). Lond., 1873-99. 53 v., il., 13 x 9,  $\frac{1}{2}$  mor.
- 11 CAMBRIDGE MATHEMATICAL JOURNAL (monthly); 1844-45 (v. 4). Note: In-  
complete. Cambridge, Eng., 1845. 1 v., 9 x 6,  $\frac{1}{2}$  mor.
- 31 CAPITAL AND LABOR (weekly); 1880 (v. 7). Lond., 1880. 1 v., 13 x 9, unbound.
- 16 CHEMICAL GAZETTE; or, Journal of Practical Chemistry in all its applications  
to pharmacy, art and manufactures (bi-monthly); 1849 (v. 7). Lond., 1849. 1 v.,  
9 x 6,  $\frac{3}{4}$  sh.
- 17 CHEMIST, THE: A monthly journal of chemical and physical science; 1855-58  
(new ser., v. 3-5). Lond., 1856-58. 3 v., 9 x 6,  $\frac{3}{4}$  mor.
- 8 — A monthly journal of chemical philosophy and of chemistry applied to the arts,  
manufactures, agriculture, and medicine, and record of pharmacy; Oct., 1849-  
Sept., '52 (new ser., v. 1-3). Lond., 1849-52. 3 v., 9 x 6,  $\frac{3}{4}$  sh.
- 2 CIVIL ENGINEER AND ARCHITECT'S JOURNAL (monthly); Oct., 1837-68 (v.  
1-31). Note: v. 31 incomplete. Lond., 1838-68. 33 v. in 31, il., 11 x 9, cl.
- 36 COLLIERY GUARDIAN AND JOURNAL OF THE COAL AND IRON TRADES  
(weekly); July, 1899-June, 1900 (v. 78-79). Lond., 1899-1900. 2 v., il., 17 x 11,  
unbound.
- 47 COMMISSIONERS OF PATENTS' JOURNAL (semi-weekly); 1854-83 (v. 1-38).  
Note: Ceased publication at the end of 1883, when its place was taken by the  
*Official Journal of the Patent Office*. v. 2, 9-12, 15-26 (1855, '62-65, '68-77) wanting.  
Lond., 1854-83. 21 v. in 22, 11 x 7, cl.
- 39 DIPLOMATIC REVIEW (monthly); 1857-70 (v. 5-18). Note: Formerly called *Free  
Press*. v. 5, 18 (1857, '70) incomplete. Lond., 1857-70. 14 v., 13 x 9, unbound.
- 19 ELECTRICAL REVIEW (weekly); 1877-June, 1900 (v. 5-46). Lond., 1877-1900. 42  
v., 13 x 9, unbound.
- 35 ELECTRICIAN (weekly); 1879-83 (v. 3-11). Lond., 1879-83. 9 v., 12 x 9, unbound.
- 5 ENGINEER, THE (weekly); 1856-June, '99 (v. 1-87). Note: v. 1 (Jan.-June, 1856)  
incomplete. Lond., 1856-99. 87 v. il., 16 x 11,  $\frac{1}{2}$  mor.
- 1 ENGINEERING: An illustrated weekly journal; 1866-June, '99 (v. 1-67). Lond.,  
1866-99. 67 v., il., 14 x 10,  $\frac{1}{2}$  mor.

**Td6 GREAT BRITAIN—(Continued).**

- 20 **ENGINEERING REVIEW** (monthly); 1893-96 (v. 1-5). Note: Each volume incomplete. v. 3 (1895) wanting. Lond., 1893-96. 4 v., 11 x 9, unbound  
**FREE PRESS.** See *Diplomatic Review*.
- 26 **GAS TRADE CIRCULAR AND REVIEW** (bi-monthly); 1879 (v. 4). Lond., 1879. 1 v., 15 x 9, unbound.
- 45 **ILLUSTRATED OFFICIAL JOURNAL (PATENTS)**, (weekly); 1889-99. Note: Formed by the combination of the *Official Journal of the Patent Office*, the *Illustrated Journal of Patented Inventions*, and the *Law Reports of Patent, Design and Trade Mark Cases*. Reports of Patent, Design and Trade Mark Cases now issued separately. Lond., 1889-99. 11 v., il., 11 x 7, unbound.
- 25 **INDUSTRIAL REVIEW** (weekly); 1887-88 (v. 16-17.) Note: Each volume incomplete. Lond., 1887-88. 2 v., 18 x 12, unbound.
- 9 **INDUSTRIES** (weekly): A journal of engineering, electricity and chemistry; July, 1886-Mar., 1900 (v. 1-28). Note: Combined with *Iron* in June, 1893, after which the title read *Industries and Iron*. Publication discontinued Mar., 1900. v. 1, 2 (July-Dec., 1886, Jan.-June, 1887) incomplete. Lond., 1886-1900. 28 v., il., 14 x 11,  $\frac{1}{2}$  mor.
- 41 **IRON** (weekly); 1873-June, '93 (v. 1-41). Note: In June, 1893, combined with *Industries*. v. 1 (Jan.-June, 1873) incomplete. Lond., 1873-93. 41 v., 15 x 10, unbound.
- 27 **IRON AND COAL TRADES REVIEW** (weekly); 1878-June, '79, 1898-June, 1900 (v. 16-18, 56-60). Lond., 1878-1900. 8 v., 16 x 11, unbound.
- 28 **IRON TRADE CIRCULAR** (weekly); 1879 (Nos. 759-784). Lond., 1879. 1 v., 15 x 10, unbound.
- 22 **IRONMONGER** (weekly); July, 1878-Mar., 1900 (v. 20-90). Note: v. 23, 24, 47, 48, 49, 55, 58-61, 64, 70 (1880, Apr.-Dec., '89, Apr.-June, '91, '92, July-Sept., '93, Jan.-Mar., '95 incomplete; v. 25-46, 62 (1881-88, Jan.-Mar., '89, Jan.-Mar., '93) wanting. Lond., 1878-1900. 48 v., 11 x 8, unbound.
- 18 **JOURNAL OF GAS LIGHTING** (weekly); 1882-June, 1900 (v. 39-75). Note: v. 48, 53, 57-59, 62, 71 (July-Dec., 1886, Jan.-June, '89, '91, Jan.-June, '92, July-Dec., '93. wanting. Lond., 1882-1900. 30 v., 13 x 9, unbound.
- 21 **MACHINERY MARKET** (monthly); 1889-91. Note: Incomplete. Lond., 1889-91. 3 v., 11 x 9, unbound.
- 10 **MATHEMATICAL MONTHLY, THE**; Oct., 1858-Sept., '59 (v. 1). Cambridge, 1859. 1 v., il., pl., 10 x 7,  $\frac{3}{4}$  mor.
- 38 **MECHANICAL ENGINEER** (weekly); 1898-June, 1900 (v. 1-5). Manchester, 1898-1900. 5 v., 14 x 10, unbound.
- 20 **MECHANICAL WORLD** (weekly); July-Dec., 1886 (v. 22). Lond., 1886. 1 v., 15 x 11, unbound.
- 3 **MECHANICS' MAGAZINE, MUSEUM, REGISTER, JOURNAL, AND GAZETTE** (weekly); 1844-58 (v. 40-69). Note: v. 49-50, 52, 54-55, 57, 61, 64-65, 69 (Dec., 1848; May, 1849; June, 1850; Feb., July, 1851; Oct., 1852; Nov., 1854; Jan.-Aug., Oct.-Dec., 1856; July, Sept., Nov., 1858) wanting. Lond., 1844-58. 15 v. in 29, il., 9 x 6,  $\frac{1}{2}$  mor.
- 48 **MINING JOURNAL, RAILWAY AND COMMERCIAL GAZETTE** (weekly); May-Dec., 1899 (v. 69). Lond., 1899. 1 v., 18 x 12, unbound.
- 32 **MINING WORLD AND ENGINEERING RECORD** (weekly); 1877, Jan.-June, '78, July-Dec., '80 (v. 12-14, 19). Note: v. 12, 19 (Jan.-June, 1877, July-Dec., '80) incomplete. Lond., 1877-80. 4 v., 13 x 9, unbound.
- 43 **NAUTICAL MAGAZINE AND NAVAL CHRONICLE**: A journal of papers on subjects connected with maritime affairs (monthly); 1847. Lond., 1847. 1 v., 9 x 6,  $\frac{1}{2}$  ro.
- 44 **OFFICIAL JOURNAL OF THE PATENT OFFICE** (weekly); 1884-June, '88. Note: In 1889 combined with the *Illustrated Journal of Patented Inventions*, and the *Law Reports of Patent, Design and Trade Mark Cases* under the title the *Illustrated Official Journal (Patents)*. 1886 incomplete. Lond., 1884-88. 9 v., 11 x 7, unbound.
- 24 **PRACTICAL ENGINEER** (weekly); 1887-90 (v. 1-4). Lond., 1887-90. 4 v., 12 x 9, unbound.
- 4 **PRACTICAL MECHANIC AND ENGINEER'S MAGAZINE** (monthly); 1841-46 (ser. 1, v. 1-4; ser. 2, v. 1-2). Glasgow, 1842-47. 6 v., il., 10 x 8,  $\frac{3}{4}$  cf.
- 13 **PRACTICAL MECHANIC'S JOURNAL** (monthly); 1848-Oct., '69 (ser. 1, v. 1-7; ser. 2, v. 1-9; ser. 3, v. 2-5). Note: ser. 3, v. 5 incomplete. Glasgow, 1848-69. 20 v. in 12, il., pl., 11 x 9,  $\frac{3}{4}$  sh.
- 23 **RAILWAY ENGINEER** (monthly); 1889-99 (v. 10-20). Lond., 1889-99. 11 v., 12 x 10, unbound.
- 37 **RAILWAY TIMES** (weekly); 1872-75 (v. 35-38). Note: v. 35, 38 (1872, '75) incomplete. Lond., 1872-75. 4 v., 12 x 9, unbound.
- 46 **REPORTS OF PATENT, DESIGN AND TRADE MARK CASES** (bi-monthly); 1897, '99 (v. 14, 16). Note: Issued as a part of the *Illustrated Official Journal (Patents)*, and from 1889-Mar., '94 bound with the same. Lond., 1897-99. 2 v., 11 x 7, unbound.



**Td6 GREAT BRITAIN—(Continued).**

- 34 **REVIEW OF GAS AND WATER ENGINEERING** (weekly); 1880, July-Dec., '82 (v. 5, 9). Note: v. 5 (1880) incomplete. Lond., 1880-82. 2 v., 13 x 9, unbound.
- 40 **SYMONS'S MONTHLY METEOROLOGICAL MAGAZINE**; 1874 (v. 8). Note: July wanting. Lond., 1874. 1 v., 8 x 5, unbound.
- 30 **TEXTILE MANUFACTURER** (monthly); 1879-80 (v. 5-6). Manchester, 1879-80. 2 v., 13 x 9, unbound.

**Td7 HUNGARY.**

- 2 **A MAGYAR MÉRNÖK-ÉS ÉPÍTÉSZ-EGYLET HETI ÉRTESÍTŐJE** (weekly); 1882-99 (v. 1-18). Note: v. 3, 12-13 (1884, '93-'94) wanting. Budapest, 1882-99. 15 v., 11 x 8, unbound.
- 1 **A MAGYAR MÉRNÖK-ÉS ÉPÍTÉSZ-EGYLET KÖZLÖNYE** (monthly); 1887-99 (v. 21-33). Note: v. 27 (1893) wanting. Budapest, 1887-99. 12 v., 13 x 10, unbound.
- 3 **ÉPÍTÉSZETI SZEMLE** (monthly); 1892-93. Budapest, 1892-93. 2 v., 13 x 10, unbound.

**Td8 ITALY.**

- 1 **GIORNALE DEL GENIO CIVILE** (monthly); Apr.-May, 1881; '82; June-July, Nov.-Dec., '83; May-Dec., '84; Jan.-Feb., '86; 87; '93-99 (v. 19, Nos. 4-5; v. 20; v. 21, Nos. 6-7, 11-12; v. 22, Nos. 5-12; v. 24, Nos. 1-2; v. 25; v. 31-37). Roma, 1881-99. 13 v., il., 9 x 6, unbound.
- 3 **GIORNALE DEL LAVORI PUBBLICI** (weekly); 1879-80 (v. 6-7). Roma, 1879-80. 2 v., 14 x 11, unbound.
- 2 **INDUSTRIA, L'** (weekly); 1887-98 (v. 1-12). Note: v. 5, 6 (1891, '92) incomplete. Milano, 1887-98. 12 v., 15 x 9, unbound.

**Td9 NETHERLANDS.**

- 1 **ANNALES DE L'ÉCOLE POLYTECHNIQUE DE DELFT** (quarterly); 1885-91, '94, '97 (v. 1-8). Leide, 1885-97. 8 v., 14 x 10, unbound.

**Td10 NORWAY.**

**NORSK TEKNISK TIDSSKRIFT.** See *Teknisk Ugeblad*.

- 2 **TEKNISK UGBLAD** (weekly); 1883-99 (v. 1-17). Note: Continuation of *Norsk Teknisk Tidsskrift*. v. 16 (1898) incomplete. Kristiania, 1883-99. 17 v., 13 x 10, unbound.

**Td13 RUSSIA.**

- 2 **ENGINEER** (monthly); 1893-98 (v. 17-22). Note: Russian text. v. 18-19 (1894-95) wanting. Kieff, 1893-98. 4 v., 13 x 10, unbound.
- 1 **RIGASCHE INDUSTRIE-ZEITUNG** (semi-monthly); Organ des Technischen Vereins zu Riga; 1876-99 (v. 2-25). Note: v. 24 (1898) incomplete. Riga, 1876-99. 24 v., 12 x 9, unbound.

**Td14 SPAIN.**

- 1 **REVISTA DE OBRAS PUBLICAS** (weekly); fundada y sostenida por el Cuerpo Nacional de Ingenieros de Caminos, Canales y Puertos; 1897-99 (v. 44-46). Note: v. 44, 45 (1897, '98) incomplete. Madrid, 1897-99. 3 v., 14 x 10, unbound.

**Td15 SWEDEN.**

- 1 **TEKNISK TIDSKRIFT** (weekly); utgifven af Svenska Teknologföreningen; 1877-99 (v. 7-29). Note: v. 23 (1898) incomplete; v. 19 (1889) wanting. Stockholm, 1877-99. 22 v., 13 x 10, unbound.

## PERIODICALS—ASIA.

**Te**

- 2 **INDIAN ENGINEERING** (weekly); 1886-June, 1900 (v. 1-27). Note: v. 6 (July-Dec., 1889) wanting. Calcutta, 1886-1900. 26 v., 13 x 9, unbound.
- 3 **MADRAS ADVERTISER** (weekly); 1888-90 (new ser., v. 8-9). Note: Each volume incomplete. Madras, 1888-90. 2 v., 17 x 12, unbound.
- 1 **PROFESSIONAL PAPERS ON INDIAN ENGINEERING** (quarterly); 1872-76, '78, '84-86 (ser. 2, v. 1-5, 7; ser. 3, v. 2, No. 6; v. 3, No. 12; v. 4, No. 15). Roorkee, 1872-86. 9 v., il., pl., 10 x 6, 14 x 9, cl.

## PERIODICALS—AUSTRALIA.

**Tg**

- 1 **BUILDING AND ENGINEERING JOURNAL** (weekly); July, 1890-June, '93. Note: Each volume incomplete. Melbourne, 1890-93. 6 v., 15 x 10, unbound.

## DICTIONARIES AND ENCYCLOPEDIAS.

### U

- 51 **ADLER, G. J.**, comp. Dictionary of the German and English languages; in two parts: Pt. 1, German and English; Pt. 2, English and German. ed. 7, rev. N.Y., 1869. 2 v. in 1, 10 x 7,  $\frac{1}{2}$  mor.
- 39 **ALDEN'S LIVING TOPICS CYCLOPÆDIA**: A record of recent events and of the world's progress in all departments of knowledge. N. Y., 1896. 1 v., 8 x 5,  $\frac{1}{2}$  ro.
- 32 **ALEXANDER, J. H.** Universal dictionary of weights and measures, ancient and modern; reduced to the standards of the United States of America. Balt., 1850. 8 + 158 pp., 10 x 6, cl.
- 69 **ALMANACH DE GOTHA**: Annuaire diplomatique et statistique; 1866, '78-87, '89-95, '97. Gotha, 1866-97. 19 v., por., 5 x 3, cl.
- 45 **AMERICAN ANNUAL CYCLOPEDIA AND REGISTER OF IMPORTANT events**; 1861-63, '65. N. Y., 1862-66. 4 v., por., 10 x 7, sh.
- 44 **AMERICAN CYCLOPEDIA**: A popular dictionary of general knowledge; ed. by George Ripley and Charles A. Dana. N. Y., 1873-76. 16 v., il., 10 x 7, cl.
- 87 **AMERICAN ENGINEERING REGISTER**; ed. by Lewis M. Haupt. N. Y., 1885. 411 + 101 pp., 9 x 6, cl.
- 52 **ANDREWS, E. A.** Copious and critical Latin-English lexicon, founded on the larger Latin-German lexicon of William Freund. N. Y., 1858. 25 + 1663 pp., 10 x 7, sh.
- 36 **APPLETON'S CYCLOPEDIA OF DRAWING**; designed as a text-book for the mechanic, architect, engineer and surveyor; comprising geometrical projection, mechanical, architectural, and topographical drawing, perspective and isometry; ed. by W. E. Worthen. N. Y., 1857. 14 + 410 pp., il., pl., 10 x 7, cl.
- 18 **APPLETON'S DICTIONARY OF MACHINES, MECHANICS, ENGINE-WORK, and engineering**. N. Y., 1863. 2 v., il., pl., por., 10 x 7,  $\frac{1}{2}$  mor.
- 43 **BAILLAIRGÉ, C. P. F.** Vocabulaire des homonymes simples de la langue française. Joliette, 1891. 3 + 212 pp., 7 x 4, cl.
- 42 — Vocabulary of English homonyms. Quebec, 1891. 8 + 190 pp., 7 x 4, cl.
- 30 **BARLOW, PETER.** Encyclopædia of mechanical philosophy; comprising the sciences of mechanics, hydrodynamics, pneumatics, and optics; and treatises on sound and light, by Sir John F. W. Herschel. Lond., 1848. 8 + 586 pp., pl., 11 x 9, cl.
- 31 — New mathematical and philosophical dictionary; comprising an explanation of the terms and principles of pure and mixed mathematics and such branches of natural philosophy as are susceptible of mathematical investigation; with historical sketches of the rise, progress and present state of the several departments of these sciences; and an account of the discoveries and writings of the most celebrated authors, both ancient and modern. Lond., 1814. unpagcd, il., 13 pl., 9 x 6,  $\frac{1}{2}$  sh.
- 60 **BIBLIOTHECA POLYTECHNICA**. Directory of technical literature, a classified catalogue of all books, annuals and journals published in America, England, France and Germany; ed. by Fritz von Szczepanski (yearly); 1889. N. Y., 1890. 1 v., 8 x 5, cl.
- 24 **BOISTE, P. C. U.** Dictionnaire universel de la langue française, avec le Latin et les étymologies, extrait comparatif, concordance, critique et supplément de tous les dictionnaires français; manuel encyclopédique de grammaire, d'orthographe, de vieux langage, de néologie; revue, corrigée et considérablement augmentée par Charles Nodier. new ed., rev. and enl. Bruxelles, 1835. 24 + 241 pp., tab., 11 x 8,  $\frac{1}{2}$  cf.
- 17 **BOOTH, JAMES C.** Encyclopedia of chemistry, practical and theoretical; embracing its application to the arts, metallurgy, mineralogy, geology, medicine, and pharmacy; by James C. Booth. ed. 7. Phil., 1863. 4 + 974 pp., il., 9 pl., 9 x 6, cf.
- 71 **BRITISH ALMANAC OF THE SOCIETY FOR THE DIFFUSION OF USEFUL Knowledge**; 1872. Lond., 1872. 1 v., 7 x 4, cl.
- 1 **BUSTAMANTE, F. CORONA.** Diccionario Inglés-Español y Español-Inglés comprende todas las voces usuales de ambas lenguas con sus diferentes acepciones; las principales frases familiares y modismos; la nomenclatura moderna comercial é industrial los nombres propios, y la pronunciación figurada de los dos idiomas. Paris, 1880. 2 v., 6 x 4, cl.

U—(*Continued*).

- 54 **CALISCH, I. M.** New complete dictionary of the English and Dutch languages; rev. by N. S. Calisch. ed. 2 rev. Tiel, 1890-92. 2 v., 10 x 6,  $\frac{1}{2}$  mor.
- 47 **CENTURY CYCLOPEDIA OF NAMES:** A pronouncing and etymological dictionary of names in geography, biography, mythology, history, ethnology, art, archaeology, fiction, etc.; ed. by Benjamin E. Smith. N. Y., 1894. 7 + 1085 pp., 13 x 10, sh.
- 46 **CENTURY DICTIONARY:** An encyclopedic lexicon of the English language; prepared under the supe rintendence of William Dwight Whitney. N. Y., 1880-91. 6 v., il., 13 x 10, sh.
- 20 **CRÉSY, EDWARD.** Encyclopædia of civil engineering, historical, theoretical, and practical. Lond., 1847. 12 + 1655 pp., il., 9 x 5, cl.
- 27 **CYCLOPÆDIA OF USEFUL ARTS, MECHANICAL AND CHEMICAL, MANUFACTURES, MINING, AND ENGINEERING;** ed. by Charles Tomlinson. Lond., 1852 (?) 2 v., il., pl., 10 x 7, cl.
- 55 **DAVENPORT, JOHN, and GUGLIELMO COMELATI,** comp. New dictionary of the Italian and English languages, based upon that of Baretti. Lond., 1854. 2 v., 9 x 5, cl.
- 33 **DICTIONARY OF SCIENCE;** comprising astronomy, chemistry, dynamics, electricity, heat, hydrodynamics, hydrostatics, light, magnetism, mechanics, meteorology, pneumatics, sound, and statics; preceded by an essay on the history of the physical sciences; ed. by G. F. Rodwell. Lond., 1871. 28 + 580 pp., 9 x 5, bds.
- 28 **DICTIONARY OF SCIENCE, LITERATURE, AND ART;** comprising the history, description, and scientific principles of every branch of human knowledge; with the derivation and definition of all the terms in general use; ed. by W. T. Brande, assisted by Joseph Cauvin. N. Y., 1847. 4 + 1352 pp., il., 10 x 6, sh.
- 57 **ENCYCLOPÆDIA BRITANNICA:** A dictionary of arts, sciences and general literature. ed. 9. N. Y., 1878-89. 25 v., il., 11 x 8,  $\frac{1}{2}$  mor.
- 57a —Same. ed. 3. Edin., 1797-1801. 20 v., il., 11 x 8, sh.
- 84 **ENGINEERING INDEX;** ed. by the Association of Engineering Societies; 1884-95. Chic., 1892; N. Y., 1896. 2 v., 10 x 7, cl.
- 77 **FORNEY, M. N., LEANDER GAREY and C. A. SMITH,** comp. Car-builder's dictionary: An illustrated vocabulary of terms which designate American railroad cars, their parts and attachments; comp. for the Master Car Builders' Association. N. Y., 1879. 401 pp., il., 5 x 8, cl.
- 77a —Same. N. Y., 1884. 203 + 258 pp., il., 8 x 8, cl.
- 83 **GALLOUPE, F. E.** Index to engineering periodicals, 1883 to 1887, inclusive; comprising engineering, railroads, science, manufactures, and trade. Bost., 1888. 6 + 294 pp., 9 x 6, cl.
- 5 **GRIER, WILLIAM.** Mechanic's pocket dictionary; being a note book of technical terms, rules, and tables, in mathematics and mechanics; for the use of millwrights, engineers, machine makers, founders, carpenters, joiners, and students of natural philosophy. Glasgow, 1837. 4 + 547 pp., il., pl., por., 7 x 4, cl.
- 85 **HAFERKORN, H. E., and PAUL HEISE.** Handy lists of technical literature; reference catalogue of books printed in English from 1880 to 1888 inclusive, to which is added a select list of books printed before 1880. Milwaukee, 1889-93. 6 v. in 5, 9 x 6, cl.
- 11 **HAMONIERE, G.** Nouveau dictionnaire français-anglais et anglais-français, abrégé de Boyer; augmentée d'un dictionnaire de prononciation et de vocabulaires de mythologie, de géographie et de marine. new ed., enl. Paris, no date. various pagings, 9 x 6, sh.
- 15 **HERBERT, LUKE.** Engineer's and mechanic's encyclopædia, comprehending practical illustrations of the machinery and processes employed in every description of manufacture of the British Empire. Lond., 1837. 2 v., il., pl., 9 x 6,  $\frac{3}{4}$  mor.
- 58 **HIBBEN, T. N., & CO.,** pub. Dictionary of the Chinook jargon, or Indian trade language of the North Pacific Coast. Victoria, 1883. 35 pp., 8 x 6, pap.
- 23 **HILPERT, J. L.** Dictionary of the English and German, and the German and English language; with a preface by E. Kærcher. N. Y., 1846. 1 v. in 2, 11 x 8,  $\frac{1}{2}$  ro.
- 6 **HOEFER, FERD.** Dictionnaire de chimie et de physique. Paris, 1846. 2 + 478 pp., 7 x 5, cl.
- 78 **HOUSTON, E. J.** Dictionary of electrical words, terms and phrases. ed. 4, enl. N. Y., 1898. 7 + 990 pp., il., 10 x 7, cl.
- 26 **HUTTON, CHARLES.** Mathematical and philosophical dictionary; containing an explanation of the terms, and an account of the several subjects, comprized under the heads, mathematics, astronomy, and philosophy, both natural and experimental; with an historical account of the rise, progress, and present state of these sciences; also, memoirs of the lives and writings of the most eminent authors, both ancient and modern, who by their discoveries or improvements have contributed to the advancement of them. Lond., 1795-96. 2 v., il., pl., 10 x 8, cf.



U—(*Continued*).

- 53 LIDDELL, H. G., and ROBERT SCOTT. Greek-English lexicon, based on the German work of Francis Passow; with corrections and additions by Henry Drisler. N. Y., 1853. 29 + 1705 pp., 10 x 7, sh.
- 48 LOPES, J. M., and E. R. BENSLEY, comp. Nuevo diccionario Inglés-Español y Español-Inglés. Paris, 1892. 2 v. in 1, 11 x 7, ½ mor.
- 41 LOVENDAL, A. S. Dictionnaire technique, français-anglais, des outils et ustensiles employés dans les métiers manuels, la petite industrie, le ménage, etc., suivi d'un index anglais-français. Paris, 1899. 8 + 158 pp., 7 x 5, pap.
- 14 McCULLOCH, J. R. Dictionary, practical, theoretical, and historical of commerce and commercial navigation; ed. by Henry Vethake. Phil., 1845. 2 v., 9 x 6, sh.
- 16 M'CULLOCH'S UNIVERSAL GAZETTEER: A dictionary, geographical, statistical, and historical, of the various countries, places, and principal natural objects in the world; in which the articles relating to the United States have been greatly multiplied and extended, and adapted to the present condition of the country, and to the wants of its citizens; by Daniel Haskel. N. Y., 1843-44. 2 v., maps, 10 x 6, ¾ ro.
- 9 MALVIN-CAZAL, JOSEPH DE. Prononciation de la langue française au XIX siècle, tant dans le langage soutenu que dans la conversation. Paris, 1846. 25 + 492 pp., 8 x 5, ½ ro.
- 2 MEADOWS, F. C. New Spanish and English dictionary, in two parts: I, Spanish and English—II, English and Spanish. Lond., 1847. 6 + 427 + 379 pp., 6 x 4, cl.
- 10 MORTIMER, THOMAS. General commercial dictionary, comprehending trade, manufactures, and navigation, as also agriculture, so far as it is connected with commerce; with considerable alterations and additions, by William Dickinson. ed. 2, enl. Lond., 1819. 8 + 1156 pp., 8 x 5, pap.
- 21 MUSPRATT, SHERIDAN. Chemistry, theoretical, practical and analytical as applied and relating to the arts and manufactures. Glasgow, 1860. 7 v., il., pl., por., 11 x 8, cl.
- 70 NATIONAL ALMANAC AND ANNUAL RECORD; 1863. Phil., 1863. 1 v., 7 x 5, cl.
- 7 NAVAL AND MILITARY TECHNICAL DICTIONARY OF THE FRENCH LANGUAGE, in two parts: French-English, and English-French; with explanations of the various terms, by Burn. Bost., 1853. 12 + 382 + 320 pp., tab., 8 x 5, cl.
- 13 NEUMAN AND BARETTI'S DICTIONARY OF THE SPANISH AND ENGLISH languages; wherein the words are correctly explained, agreeably to their different meanings, and a great variety of terms relating to the arts, sciences, manufactures, merchandise, navigation, and trade, elucidated. rev. and enl. ed. Bost., 1828. 2 v., 9 x 5, sh.
- 34 NEW EDINBURGH ENCYCLOPÆDIA, v. 14, Pts. 1-2. Amer. ed. Note: Comprises articles from "Musci" to "Organ." Phil., no date. 2 v., il., pl., 11 x 9, ½ sh. no title-page.
- 82 NICHOLSON, PETER. Architectural and engineering dictionary, containing a correct nomenclature and derivation of the terms employed by architects, builders and workmen; and the lives of the principal architects. Lond., 1835. 2 v. in 4, pl., 11 x 9, ¾ ro.
- 76 NICHOLSON, WILLIAM. American edition of the British Encyclopedia; or, Dictionary of arts and sciences; comprising an accurate and popular view of the present improved state of human knowledge; v. 6. Phil., 1817. 1 v., pl, 9 x 6, bds.
- 79 PARKER, J. H. Concise glossary of terms used in Grecian, Roman, Italian and Gothic architecture. ed. 8, rev. Lond., 1892. 2 + 335 pp., il., 7 x 5, cl.
- 59 PENNSYLVANIA, UNIVERSITY OF. List of periodical engineering literature; prepared at the Rogers Engineering Library, University of Pennsylvania, by H. Haupt, Jr. Phil., 1879. 91 pp., 10 x 6, pap.
- 12 POCKET DICTIONARY OF THE SPANISH AND ENGLISH LANGUAGES; comp. from the last improved editions of Neuman and Baretti; in two parts; Spanish-English and English-Spanish. Phil., 1851. 2 v., 5 x 4, sh.
- 86 PRUSSIA—MINISTERIUM FÜR HANDEL, GEWERBE UND ÖFFENTLICHE Arbeiten. Repertorium der technischen Literatur; herausgegeben von Bruno Kerl; 1854-76. new ser. Leipzig, 1871-77. 5 v. in 9, 10 x 6, pap.
- 56 ROGET, P. M. Thesaurus of English words and phrases classified and arranged so as to facilitate the expression of ideas and assist in literary composition; enl. and improved, by John Lewis Roget. new ed., enl. N. Y., 1879. 45 + 429 + 271 pp., 8 x 5, cl.
- 37 ROYAL DICTIONARY; English and French, and French and English; comp. from the dictionaries of Johnson, Todd, Ash, Webster, and Crabb, from the last edition of Chambaud, Garner, and J. Descarières, the sixth edition of the Academy, the complement to the Academy, the grammatical dictionary of Laveaux, the universal lexicon of Boiste, and the standard technological works in either language; by Fleming and Tibbins. Paris, 1857. 2 v., 12 x 9, ½ mor.
- 50 SMITH, L., H. HAMILTON and E. LEGROS. International English and French dictionary. new ed. Bost., 1880. 2 v. in 1, 10 x 6, ¾ mor.

U—(*Continued*).

- 22 **SPONS' DICTIONARY OF ENGINEERING, CIVIL, MECHANICAL, MILITARY, and naval;** with technical terms in French, German, Italian, and Spanish; ed. by Oliver Byrne. Lond., 1869-74. 8 v., il., tab., 10 x 7, cl.
- 25 **STEVENS, JOHN.** New Spanish and English dictionary; collected from the best Spanish authors, both ancient and modern; to which is added, a copious English and Spanish dictionary; likewise, a Spanish grammar, more complete and easy than any hitherto extant, wherein the Spanish dialogues that have been published are put into proper English. Lond., 1706 (?) unpagcd, 15 x 9, cf.
- 81 **STUART, ROBERT.** Dictionary of architecture, historical, descriptive, topographical, decorative, theoretical and mechanical. Lond., no date. 3 v., il., 9 x 6, cl.
- TANNER, H. S.** Glossary of the scientific, mechanical and other terms employed in engineering. 1840. (See Aa-14, p. 235.)
- 29 **TECHNOLOGICAL DICTIONARY; CONTAINING THE TECHNICAL TERMS** used in manufactures and arts, building, civil and naval architecture, military, civil and mechanical engineering, artillery, navigation, mathematics and natural philosophy, chemistry and mineralogy, etc. Wiesbaden, 1855-69. 3 v., 10 x 7, ro.
- 49 **TECHNOLOGICAL DICTIONARY; ENGLISH, GERMAN, FRENCH; WITH A** preface by Karl Karmarsch. v. 1-2, ed. 4, rev.; v. 3, ed. 3, rev. and enl. Wiesbaden, 1887-91. 3 v., 10 x 7, ½ mor.
- 4 **TOLHAUSEN FRÈRES ET GARDISSAL.** Dictionnaire technologique français-anglais-allemand, rédigé d'après les meilleurs ouvrages spéciaux des trois langues; donnant avec leurs diverses acceptions et applications tous les termes techniques employés dans les arts industriels et dans la mécanique, la physique et la chimie manufacturières. Paris, 1854-55. 3 v., 7 x 4, ¾ mor.
- 8 **TOMLINS, T. E.** Popular law-dictionary, familiarly explaining the terms and nature of English law; adapted to the comprehension of persons not educated for the legal profession, and affording information peculiarly useful to magistrates, merchants, parochial officers, and others. Lond., 1838. 553 pp., 8 x 5, ½ sh.
- 40 **UNITED STATES—BUREAU OF EDUCATION.** English-Eskimo and Eskimo-English vocabularies; comp. by Roger Wells, Jr. and John W. Kelly; preceded by ethnographical memoranda concerning the Arctic Eskimos in Alaska and Siberia, by John W. Kelly. (Circular of Information No. 2.) Wash., 1890. 72 pp., maps, 9 x 6, pap.
- 19 **URE, ANDREW.** Dictionary of arts, manufactures, and mines; containing a clear exposition of their principles and practice. 4th Amer. fr. Lond. ed. N. Y., 1845. 2 v., il., 9 x 6, sh.
- 80 **VIOLLET-LE-DUC, E. E.** Dictionnaire raisonné de l'architecture française du 11<sup>e</sup> au 16<sup>e</sup> siècle. Paris, 1867-68. 10 v., il., pl., 10 x 7, pap.
- 38 **WEALE, JOHN.** Rudimentary dictionary of terms used in architecture, civil; architecture, naval; building and construction; early and ecclesiastical art; engineering, civil; engineering, mechanical; fine art; mining; surveying, etc.; to which are added explanatory observations on numerous subjects connected with practical art and science. Lond., 1849-50. 2 v., il., pl., 7 x 4, cl.
- 72 **WHITAKER, JOSEPH.** Almanack; 1885-86 Lond., 1885-86. 2 v., 7 x 5, pap.
- 3 **WILL, C.** Dictionary; English and German. Frankfurt a. M., 1827. 2 v., 6 x 5, bds.
- 73 **WORLD ALMANAC AND ENCYCLOPEDIA;** 1900. N. Y., 1900. 1 v., 8 x 5, pap.

# ENGINEERING HANDBOOKS.\*

## V

- 8 **ADCOCK'S ENGINEERS' POCKET-BOOK, WITH AN ALMANACK; 1839, '41.** Lond., 1839-41. 2 v., il., 6 x 4, mor.
- 80 **ALLEN, ZACHARIAH.** Science of mechanics, as applied to the present improvements in the useful arts in Europe, and in the United States of America; adapted as a manual for mechanics and manufacturers, and containing tables and calculations of general practical utility. Providence, 1829. 5 + 364 pp., il., pl., 9 x 6, bds.
- 84 **BAKER, SIR BENJAMIN.** On the strengths of beams, columns and arches; considered with a view to deriving methods of ascertaining the practical strength of any given section of beam, column, or arch, in cast iron, wrought iron, or steel. Lond., 1870. 12 + 320 pp., il., pl., 7 x 5, cl.
- 99 **BAKER, I. O.** Treatise on masonry construction. ed. 4, rev. and enl. Contents: Pt. 1. Description and characteristics of the materials. Pt. 2. Methods of preparing and using the materials. Pt. 3. Foundations. Pt. 4. Masonry structures. N. Y., 1890. 15 + 556 pp., il., 6 pl., 9 x 6, cl.
- 99a — Same. ed. 9, rev. N. Y., 1899. 13 + 556 pp., il., 9 x 6, cl.
- 85 **BARLOW, PETER.** Treatise on the strength of timber, cast iron, malleable iron, and other materials; with rules for application in architecture, construction of suspension bridges, railways, etc.; with an appendix on the power of locomotive engines. Lond., 1837. 12 + 492 pp., 7 pl., 10 x 7, cl.
- 85a — Same. new ed. rev. Lond., 1867. 12 + 396 pp., 10 + 9 pl., 9 x 6, cl.
- 36 **BARRÉ, L. A., CHARLES VIGREUX and others.** Notes et formules de l'ingénieur, du constructeur-mécanicien, du métallurgiste et de l'électricien; 11<sup>e</sup> édition, revue, suivie, d'un vocabulaire technique en français, anglais, allemand. Paris, 1897. 16 + 1312 pp., il., 7 x 4, cl.
- 45 **BECKER, MAX.** Handbuch des Ingenieur Wissenschaft. Note: Atlas accompanying v. 3 wanting. Stuttgart, 1858 (v. 3). Leipzig, 1882 (v. 2). 2 v., 9 x 6, pap., ¼ mor.
- 87 **BOVEY, H. T.** Applied mechanics. Montreal, 1882. 2 v., il., 9 x 6, cl.
- 29 **BROWNE, W. R.** Student's mechanics: An introduction to the study of force and motion; with appendix of examples, worked and unworked. Lond., 1883. 16 + 210 pp., il., 7 x 5, cl.
- 50 **BRUNTON, ROBERT.** Compendium of mechanics; or, Text book for engineers, mill-wrights, machine-makers, founders, smiths, etc., containing practical rules and tables connected with the steam engine, water-wheel, pump, and mechanics in general. ed. 5, enl. Glasgow, 1831. 189 pp., 4 pl., 8 x 4, bds.
- 71 **BURR, W. H.** Elasticity and resistance of the materials of engineering. ed. 5, rev. and enl. N. Y., 1896. 17 + 753 pp., il., 9 x 6, cl.
- 104 **BYRNE, OLIVER.** Essential elements of practical mechanics, based on the principle of work; designed for engineering students. ed. 2. Lond., 1872. 11 + 360 pp., il., 7 x 5, cl.
- 9 — Pocket companion for machinists, mechanics and engineers. ed. 2. N. Y., 1851. 144 pp., il., pl., tab., 6 x 4, mor.
- 32 **CLARK, D. K.** Mechanical engineer's pocket-book of tables, formulæ, rules and data: A handy book of reference for daily use in engineering practice. N. Y., 1892. 32 + 656 pp., il., 6 x 4, mor.
- 33 **CLAUDEL, J.** Formules, tables et renseignements, pratiques; aide-mémoire des ingénieurs des architectes, etc. ed. 5, rev. and enl. Paris, 1860. 32 + 1173 pp., il., pl., 8 x 5, ¼ ro.
- 100 **CLAUDEL, J., and J. LAROQUE.** Pratique de l'art de construire: Maçonnerie; connaissances relatives à l'exécution et à l'estimation des travaux de maçonnerie, et en particulier de ceux du bâtiment. Paris, 1850. 12 + 508 pp., il., 9 x 5, pap.
- 100a — Same. ed. 4. Paris, 1870. 756 pp., 9 x 5, pap.
- 25 **COTTERILL, J. H., and J. H. SLADE.** Lessons in applied mechanics. Lond., 1891. 14 + 512 pp., il., 7 x 4, cl.
- 44 **CRESY, EDWARD.** Supplement to an encyclopedia of engineering, historical, theoretical and practical; comprising the Metropolitan water supply, drainage of towns, railways, cubical proportion, brick and iron construction, iron screw piles, tubular bridges, etc. Lond., 1856. pp. 1637-1752, il., pl., 9 x 6, cl.

\* NOTE.—Includes text books on mechanics, strength of materials and general engineering.



V—(*Continued*).

- 47 DANA, E. S. Text-book of elementary mechanics, for the use of colleges and schools. ed. 6. N. Y., 1886. 14 + 291 pp., il., 8 x 5, cl.
- 18 DEBAUVE, A. Manuel de l'ingénieur des ponts et chaussées; v. 9, 12. Contents. v. 9, Routes. v. 12, Construction des souterrains. Paris, 1873-74. 2 v. in 4, pl., tab., 9 x 6 (atlases 12 x 10),  $\frac{3}{4}$  mor.
- 51 DU BOIS A. J. Elementary principles of mechanics. N. Y., 1894. 3 v., il., 9 x 6, cl.
- 55 EMERSON, WILLIAM. Principles of mechanics; to which is now added an appendix containing explanatory notes, illustrations, and observations; by G. A. Smeaton. new ed. Lond., 1886. 24 + 9 + 320 pp., il., 8 x 5, cl.
- 2 ENGINEER AND CONTRACTOR'S POCKET-BOOK; 1851. Note: pp. 17-60 wanting. Lond., 1851. 1 v., il., pl., 6 x 4, mor.
- 40 FOWLER, W. H., ed. Mechanical engineers' pocket book for 1894, '99-1900. Manchester, 1894-1900. 3 v., il., 5 x 3, 6 x 4, mor.
- 93 FRANCIS, J. B. On the strength of cast-iron pillars; with tables for the use of engineers, architects and builders. N. Y., 1865. 71 pp., 10 x 6, cl.
- 86 GERSTNER, F. J. RITTER VON. Handbuch der Mechanik, aufgesetzt, mit Beiträgen von neuern englischen Konstruktionen vermehrt und herausgegeben von Franz Anton, Ritter von Gerstner. Contents: v. 1, Mechanik fester Körper. v. 2, Mechanik flüssiger Körper. v. 3, Beschreibung und Berechnung grösserer Maschinenanlagen, vorzüglich jener, welche bei dem Bau-, Berg- und Hüttenwesen vorkommen. v. 4, Plates. Prag, 1831-34. 4 v., 11 x 8,  $\frac{3}{4}$  mor.
- 28 GREENE, B. F. Physical mechanics: Lectures delivered Nov., 1853, and Jan. and Mar., 1857. no place, no date. 2 v., il., 10 x 3, pap. manuscript.
- 26 — Rational mechanics: Lectures delivered Apr., 1856. no place, no date. unpaged, 9 x 8, pap. manuscript.
- 46 GREENE, C. E. Action of materials under stress; or, Structural mechanics; comprising the strength and resistance of materials, and elements of structural design; with examples and problems. Ann Arbor, 1897. 271 pp., il., 9 x 6, cl.
- 53 HAHN, JAMES. Theoretical and practical mechanics, designed principally for practical men. Lond., 1848. 10 + 303 + 22 pp., il., 9 x 6, cl.
- 27 HANDBUCH DER BAUKUNDE; eine systematische und vollständige Zusammenstellung der Resultate der Bauwissenschaften mit den zugehörigen Hilfswissenschaften. Die Deutsche Bauzeitung und Der Deutsche Baukalender. Contents: Pt. 1, v. 1, Hilfswissenschaften zur Baukunde. Pt. 1, v. 2, Eisen und Eisenkonstruktionen in geschichtlicher, hütten technischer und technologischer Beziehung; by G. Mehrtens. Pt. 2, v. 1 and 2 wanting. Pt. 3, v. 1, Baukunde des Ingenieurs: Der Grundbau; by S. Brennecke. Ber., 1885. 3 v., il., 10 x 7, pap.
- 6 HASLETT, CHARLES. Mechanic's, machinist's, and engineer's practical book of reference; containing tables and formulæ for use in superficial and solid mensuration, strength and weight of materials, mechanics, machinery, hydraulics, hydrodynamics, marine engines, chemistry and miscellaneous recipes; together with the engineer's field book; ed. by Charles W. Hackley. N. Y., 1856. 517 pp., il., tab., 6 x 4, mor.
- 7 HASWELL, C. H. Engineers' and mechanics' pocket-book. ed. 32, rev. and enl. N. Y., 1876. 665 pp., il., 6 x 4, mor.
- 23 — Mechanics' tables, containing areas and circumferences of circles, and sides of equal squares; circumferences of angled hoops, angled outside and inside; cutting of boiler plates; covering of solids, etc. N. Y., 1856. 72 pp., il., 8 x 5, cl.
- 101 HATFIELD, R. G. Theory of transverse strains; and its application in the construction of buildings. N. Y., 1875. 630 pp., il., 10 x 6, cl.
- 14 HAUPT, L. M. Manual of engineering specifications and contracts; designed as a text-book and work of reference for all who may be engaged in the theory or practice of engineering. Phil., 1878. 12 + 305 pp., pl., 9 x 6, cl.
- 24 HAVILAND, JAMES. Tables of specific gravities of all substances, their superficial and solid contents; land measuring; together with a computation of the difference between the old and new weights and measures; also a definition of mechanical power in the practical use of machinery; the prices of the work of millwrights and other artificers; with tables of interest, discount, etc. new ed. Lond., 1846. 16 + 231 pp., 9 x 6, cl.
- 1 HILL, J. W., ed. Pocket manual for engineers. Providence, 1883. 205 pp., il., 7 x 5, ro.
- 107 HOLTZMANN, KARL. Grundzüge der Mechanik und Maschinenlehre, für Lehrer und Lernende, für Schule und Haus. Stuttgart, 1850. 8 + 187 pp., il., 7 x 5,  $\frac{3}{4}$  skiv.
- 39 HÜTTE VEREIN. Des Ingenieurs Taschenbuch. ed. 7, rev. and enl. Ber., 1867. 23 + 880 pp., il., 6 x 4, bds.
- 82 JAMIESON, ALEXANDER. Mechanics for practical men: Treatises on the composition and resolution of forces, the centre of gravity, and the mechanical powers. ed. 4. Lond., 1845. 238 pp., il., pl., 9 x 6, cl.

## V—(Continued).

- 30 **JOHNSON, J. B.** Engineering contracts and specifications, including a brief synopsis of the law of contracts and illustrative examples of the general and technical clauses of various kinds of engineering specifications; designed for the use of students, engineers, and contractors. N. Y., 1895. various pagings, 9 x 6, cl.
- 17 — Johnson's tables: Stadia and earthwork tables; four-place logarithms, logarithmic traverse table, natural functions, map projections, etc. N. Y., 1892. 6 + 99 pp., il., 9 x 6, cl.
- 88 — Materials of construction: A treatise for engineers on the strength of engineering materials. N. Y., 1897. 15 + 787 pp., il., pl., maps, por., 9 x 6, cl.
- 48 **KATER, HENRY, and DIONYSIUS LARDNER.** Treatise on mechanics. Cambridge, 1831. 8 + 388 pp., 21 pl., 7 x 4, cl.
- 5 **KENT, WILLIAM.** Mechanical engineer's pocket-book: A reference book of rules, tables, data, and formulæ; for the use of engineers, mechanics and students. N. Y., 1895. 81 + 1087 pp., il., 7 x 4, mor.
- 83 — Strength of materials. (Van Nostrand's Science Ser.) N. Y., 1879. 139 pp., il., pl., 6 x 4, bds.
- 35 **LACROIX, EUGÈNE, ed.** Carnet de l'ingénieur; recueil de tables, de formules et de renseignements usuels et pratiques sur les sciences appliquées à l'industrie chimie, physique, mécanique, machines à vapeur, hydraulique, résistance, frottements, etc., publié par les rédacteurs des *Annales du Génie Civil* avec la collaboration d'ingénieurs et de savants français et étrangers. ed. 12, rev. and enl. Paris, 1865. 8 + 290 pp., il., 7 x 4, ¾ mor.
- 38 **LAISNE, J.** Aide-mémoire portatif à l'usage des officiers du génie. ed. 4, rev. and enl. Paris, 1861. 2 v., pl., 7 x 4, ½ mor.
- 16 **LAW, HENRY.** Rudiments of civil engineering for the use of beginners. Lond., 1848-49. 2 v. in 1, il., pl., 7 x 4, cl.
- 21 **LEERS, F. A.** Manual of useful information and tables appertaining to the use of wrought iron as manufactured by the Passaic Rolling Mill Co., Paterson, N. J.; for engineers, architects and builders. N. Y., 1884. 128 pp., il., pl., 7 x 4, skiv.
- 105 **LOWNDES, C. S.** Engineer's handbook. Lond., 1860. 8 + 120 pp., il., 8 x 5, cl.
- 34 **McALPINE, C. L.** Engineering memoranda. no place, no date. 2 v., 6 x 4, sh.
- 103 **MACH, ERNEST.** Science of mechanics: A critical and historical exposition of its principles; tr. fr. the second German ed., by Thomas J. McCormack. Chic., 1893. 14 + 524 pp., il., 8 x 5, cl.
- 12 **MAHAN, D. H.** Elementary course of civil engineering for the use of cadets of the United States Military Academy. ed. 6. N. Y., 1861. 8 + 401 pp., il., 9 x 6, cl.
- 43 — Grundzüge des Ingenieurwesens; deutsch bearbeitet von Friedrich Schubert. ed. 2, rev. and enl. Stuttgart, 1853. 11 + 300 pp., il., pl., 9 x 6, bds.
- 91 **MARTENS, ADOLF.** Handbook of testing materials for the constructor. Contents: Pt. 1, Methods, machines and auxiliary apparatus. Pt. 2, wanting. N. Y., 1899. 1 v. in 2, il., por., pl., 9 x 6, cl.
- 108 **MECHANICS' ASSISTANT;** or, Universal measurer; containing a collection of tables of measures, weights and powers; with an appendix exhibiting the strength of beams, etc., and a correct method of calculating the horse powers of a steam engine. Providence, 1827. 58 pp., 6 x 5, ½ skiv.
- 56 **MOSELY, HENRY.** Mechanical principles of engineering and architecture; with additions by D. H. Mahan. 2d Amer. fr. 2d Lond. ed. N. Y., 1866. 21 + 699 pp., il., 9 x 6, cl.
- 57 **NEW JERSEY STEEL & IRON CO.** Rolled beams, channels, angles, etc. Note: Contains tables giving safe load, deflections, etc., of beams. N. Y., 1876. 81 pp., il., pl., 7 x 4, ro.
- 76 **NYSTROM, J. W.** New treatise on elements of mechanics, establishing strict precision in the meaning of dynamical terms; accompanied with an appendix on duodenal arithmetic and metrology. Phil., 1875. 352 pp., il., pl., 9 x 6, cl.
- 31 — Pocket-book of mechanics and engineering; containing a memorandum of facts and connection of practice and theory. ed. 18, rev. and enl. Phil., 1885. 671 pp., il., 1 + 11 pl., 6 x 4, mor.
- 42 **OSBORN, F. C.** Tables of moments of inertia and squares of radii of gyration: supplemented by others on the ultimate and safe strength of wrought-iron columns, safe strength of timber beams, and constants for readily obtaining the shearing stresses, reactions and bending moments in swing bridges. ed. 4. N. Y., 1894. 175 pp., 7 x 4, ro.
- 19 **PHENIX IRON CO.** Useful information for architects, engineers, and workers in wrought iron. no place, no date. 124 pp., il., 7 x 4, mor.
- 75 **PITTSBURGH REDUCTION CO.** Aluminum and aluminum alloys. Pittsburgh, 1897. 8 + 266 pp., pl., 7 x 5, mor.
- 73 **POISSON, S. G.** Traité de mécanique. ed. 2, enl. Paris, 1833. 2 v., pl., 8 x 5, pap.
- 52 **POTTER, RICHARD.** Elementary treatise on mechanics; for the use of junior university students. ed. 2, rev. Lond., 1848. 8 + 162 pp., il., 9 x 6, cl.

## V—(Continued).

- 41 PULLEN, W. W. F. Tables and data for the use of students in engineering laboratories, also for class and home work exercises. Manchester, 1899. 87 pp., il., pl., 9 x 6, cl.
- 78 RANKINE, W. J. M. Manual of applied mechanics. ed. 5, rev. Lond., 1870. 16 + 648 pp., il., 7 x 5, cl.
- 10 —Manual of civil engineering. ed. 5, rev. Lond., 1867. 16 + 784 pp., il., 7 x 5, cl.
- 11 —Useful rules and tables relating to mensuration, engineering, structures, and machines. Lond., 1866. 8 + 312 pp., il., pl., 7 x 5, cl.
- 54 RENWICK, JAMES. Elements of mechanics. Phil., 1832. 31 + 508 pp., il., 9 x 6, cf.
- 94 ROBERTS, A. and P., CO. Wrought iron and steel in construction; convenient rules, formulæ and tables for the strength of wrought-iron shapes used as beams, struts, shafts, etc.; manufactured by the Pencoyd Iron Works. N. Y., 1884. 6 + 192 pp., il., 1 + 24 pl., 7 x 4, mor.
- 3 SCRIBNER, J. M. Engineer's, contractor's, and surveyor's pocket table-book; comprising logarithms of numbers, logarithmic sines and tangents, natural sines and natural tangents, the traverse table and a full and complete set of excavation and embankment tables; together with numerous other valuable tables for engineers, etc. ed. 10, rev. N. Y., 1878. 264 pp., il., 6 x 4, skiv.
- 13 SGANZIN, M. I. Elementary course of civil engineering; tr. fr. the French, with notes and applications adapted to the United States. ed. 2. Bost. 1828. 8 + 232 pp., pl., 9 x 5,  $\frac{1}{2}$  sh.
- 102 SHIELDS, J. E. Treatise on engineering construction; embracing discussions of the principles involved and descriptions of the materials used. N. Y., 1877. 138 pp., il., 7 x 5, cl.
- 81 SPANGENBERG, LUDWIG. Fatigue of metals under repeated strains; with various tables of results of experiments; fr. the German; with a preface by S. H. Shreve. (Van Nostrand's Science Ser.) N. Y., 1876. 89 pp., il., pl., 6 x 4, bds.
- 22 STROBEL, C. L., ed. Pocket companion, containing useful information and tables appertaining to the use of wrought iron and steel as manufactured by Carnegie, Phipps & Co., Ltd., Pittsburgh, Pa., for engineers, architects and builders. Pittsburgh, 1899. 280 pp., il., 7 x 4, ro.
- 37 TEMPLETON. Engineer, millwright and mechanic's pocket companion; also, a series of mathematical tables; rev., cor., and enl. from the eight English ed., and adapted to American practice, with the addition of much new matter, by Julius W. Adams. N. Y., 1852. 236 pp., il., pl., 7 x 5,  $\frac{1}{2}$  skiv.
- 74 TEMPLETON, W. Operative mechanic's workshop companion and the scientific gentleman's practical assistant. Lond., 1845. 172 pp., pl., 6 x 4,  $\frac{1}{2}$  skiv.
- 89 THURSTON, R. H. Materials of engineering. v. 1, ed. 5, rev.; v. 2, ed. 7, rev. Contents: v. 1, Non-metallic materials. v. 2, Iron and steel v. 3, Non-ferrous metals and alloys. N. Y., 1884-99. 3 v., il., pl., 9 x 6, cl.
- 91 —Text-book of the materials of construction, for use in technical and engineering schools; abridged from "Materials of Engineering." ed. 5. N. Y., 1895. 18 + 765 pp., il., pl., 9 x 6, cl.
- 106 TOMLINSON, CHARLES. Rudimentary mechanics; being a concise exposition of the general principles of mechanical science and their applications. Lond., 1849. 8 + 172 pp., il., 7 x 4, cl.
- 4 TRAUTWINE, J. C. Civil engineer's pocket-book of mensuration, trigonometry, surveying, hydraulics, hydrostatics, instruments and their adjustments, strength of materials, etc.; rev. by John C. Trautwine, Jr. ed. 16. N. Y., 1894. 866 pp., il., 7 x 4, ro.
- 95 TREDGOLD, THOMAS. Practical essay on the strength of cast iron and other metals; with an extensive table of the properties of materials; with notes by Eaton Hodgkinson; to which are added experimental researches on the strength and other properties of cast iron. ed. 4. Lond., 1842. 28 + 303 pp., il., 4 pl., 9 x 6, bds.
- 96 TURNBULL, WILLIAM. Treatise on the strength, flexure, and stiffness of cast-iron beams and columns, shewing their fitness to resist transverse strains, torsion, compression, tension, and impulsion; with tables of constants. Lond., 1832. 8 + 194 pp., 9 x 6, bds.
- 98 WARREN, S. E. Problems in stone cutting, in four classes; for students of engineering and architecture. Contents: 1, Plane-sided structures. 2, Structures containing developable surfaces. 3, Structures containing warped surfaces. 4, Structures containing double-curved surfaces. N. Y., 1875. 11 + 126 pp., 10 pl., 9 x 6, cl.
- 72 WEISBACH, JULIUS. Lehrbuch der Ingenieur- und Maschinen-Mechanik; mit den nöthigen Hilfslehren aus der Analysis für den Unterricht an technischen Lehranstalten, sowie zum Gebrauche für Techniker. ed. 4. Contents: Pt. 1, Lehrbuch der theoretischen Mechanik. Pt. 2, Lehrbuch der Statik der Bauwerke und der Mechanik der Umtriebsmaschinen. Pt. 3, wanting. Braunschweig, 1863-65. 2 v., il., 9 x 6, mor.



V—(*Continued*).

- 72a — Principles of the mechanics of machinery and engineering, ed. by Walter R. Johnson. 1st Amer. ed. Contents: v. 1, Theoretical mechanics. v. 2, Applied mechanics. Phil., 1848-49. 2 v., il., pl., 9 x 6, cl.
- 15 **WHEELER, J. B.** Elementary course of civil engineering, for the use of cadets of the United States Military Academy. N. Y., 1877. 19 + 472 pp., il., 9 x 6, cl.
- 97 **WHILDEN, J. K.**, comp. and ed. Memoranda on the strength of materials used in engineering construction. N. Y., 1860. 62 pp., pl., 7 x 4, cl.
- 97a — Same. ed. 2. N. Y., 1867. 62 pp., il., 8 x 5, cl.
- 79 **WINKLER, E.** Die Lehre von der Elasticität und Festigkeit, mit besonderer Rücksicht auf ihre Anwendung in der Technik, für polytechnische Schulen, Bauakademien, Ingenieure, Maschinenbauer, Architekten, etc. Prag, 1867. 4 + 388 pp., il., pl., 9 x 6, cl.
- 49 **WOOD, DE VOLSON.** Elements of analytical mechanics. N. Y., 1876. 9 + 235 pp., il., 9 x 6, cl.
- 92 — Treatise on the resistance of materials; and an appendix on the preservation of timber. N. Y., 1871. 10 + 245 + 1 pp., 9 x 6, cl.

# GENERAL SCIENCE.

## GENERAL SCIENCE—GENERAL.

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- ACCOUNT OF LORD BACON'S NOVUM ORGANON SCIENTIARIUM;** or, New method of studying the sciences. no place, no date. 40 + 40 pp., 9 x 5, b. p. Zg-8, p. 1.
- AMERICAN ASSOCIATION OF INVENTORS AND MANUFACTURERS.** Proceedings and addresses: Celebration of the beginning of the second century of the American patent system at Washington City, D. C., Apr. 8th, 9th, 10th, 1891. 1892. (See Sa3-167.1.)
- 3 **ANNUAL OF SCIENTIFIC DISCOVERY;** or, Year-book of facts in science and art; 1850-51, '54, '56, '62, '69-70. Bost., 1850-70. 7 v., por., 8 x 5, cl.
- 2 **ANNUAL RECORD OF SCIENCE AND INDUSTRY;** 1871-72. N. Y., 1872-73. 1 v., 8 x 5, cl.
- 6 **BECKMANN, JOHN.** History of inventions, discoveries, and origins; tr. fr. the German by William Johnston; rev. and enl. by William Francis and J. W. Griffith. ed. 4. Lond., 1846. 2 v., por., 8 x 5, cl.
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**GENERAL SCIENCE—AGRICULTURE AND FORESTRY.****Yb**

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- 31 —Report of the Commissioner; 1862-76, '79, '85-88. Wash., 1863-89. 20 v., il., pl., maps, 9 x 6, cl.  
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- 35 —Report of the Secretary; Je., 1895-96. Wash., 1896. 1 v., 9 x 6, pap.
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- 61 **ALLEN, HORATIO.** Astronomy in its general facts and relations, taught by aid of mechanical presentation and illustration; Pts. 1-3. N. Y., 1877. various pagings, il., pl., 8 x 5, cl.
  - 38 —Earth and sun instrument: A mechanical illustration of the relations of the earth to the sun, presenting the positions and motions of the earth and the relations of the surface of the earth at all points to lines of light and heat from the sun, wherever the earth is in its orbit. no place, 1875. 31 pp., 8 x 5, pap.
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- 41 **ROBERTS, S. A.** Azimuths of the North Pole star for 1899 and 1900; lat. 48 N. to lat. 54 N. no place, no date. unpag., 9 x 6, pap.
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- 71 **SOCIETY FOR THE DIFFUSION OF USEFUL KNOWLEDGE.** Six maps of the stars. Lond., 1831. 4 pp., 6 pl., 16 x 14,  $\frac{1}{2}$  mor.
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## GENERAL SCIENCE—EXHIBITIONS.

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- 99 —Extracts from reports of United States consuls in Europe respecting the importance of the American Exhibition, London, 1886. U. S.-Consuls. no place, 1885. 17 pp., 9 x 6, pap.
- 95 —Public opinion in Europe and the United States. Note: Opinions relating to the Exhibition. Lond., 1884-85. 2 v., 9 x 6, pap.
- 124 **AMSTERDAM INTERNATIONAL EXHIBITION, 1883.** Ground plan of the Holland International Exhibition to be held in Amsterdam from May 1st to Oct. 31st, 1883. N. Y., no date. pl., 24 x 19, pap.
- CENTENNIAL EXHIBITION.** See Philadelphia International Exhibition, 1876.
- 164 **CHICAGO INTERNATIONAL EXHIBITION, 1893.** Address to the Senate and House of Representatives of the United States of America. New York Committee for the International Exhibition of 1892. Note: A petition that New York City be selected as the site of the Columbian Exposition. N. Y., 1890. 53 pp., pl., maps, 15 x 10, pap.
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- 83 —Before the Committee of the Senate on the Quadri-centennial celebration of the discovery of America, Washington, Jan. 11th, 1890: Arguments for the City of New York. C. M. Depew and others. N. Y., 1890. 37 pp., 10 x 8, pap.  
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- 162 — Sketches of the buildings and map of the grounds of the Columbian Exposition. no place, 1893. 8 pl., 16 x 21, pap. no title-page.
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- 80 —Notes upon the geological history of Cayuga and Seneca Lakes, together with a few general remarks upon the glacial period. C. W. Foote. Ithaca, 1877. 14 pp., map, 9 x 6, pap.
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- AC Report on the mining methods and appliances used in the anthracite coal fields; by H. M. Chance.
- A2 Report upon the causes, kinds and amount of waste, in mining anthracite; by Franklin Platt.
- B Preliminary report on the mineralogy of Pennsylvania; by F. A. Genth.
- B2 Second preliminary report on the mineralogy of Pennsylvania; by F. A. Genth.
- c Report of progress in the district of York and Adams Counties; by Persifor Frayer, Jr.
- c4 Geology of Chester Co.; J. P. Lesley, ed.
- c5 Pt. 1, Field notes in Delaware Co.; by C. E. Hall.
- c6 Geology of Philadelphia Co. and of the southern parts of Montgomery and Bucks; by C. E. Hall.
- c7 Report on Montgomery and Bucks Counties.
- cc Report of progress in the Counties of York, Adams, Cumberland and Franklin; by Persifor Frayer, Jr.
- ccc Geology of Lancaster Co.; by Persifor Frayer, Jr.
- D Report of progress on the brown hematite ore ranges of Lehigh Co.; by Frederick Prime, Jr.
- D3 v. 1, Geology of Lehigh and Northampton Counties; by J. P. Lesley and others.
- v. 2, Geology of the South Mountain belt of Berks Co.; by E. V. d'Inwilliers.
- D5 Adams, Franklin and Cumberland.
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- DD The brown hematite deposits of the Siluro-Cambrian limestones of Lehigh Co.; by Frederick Prime, Jr.
- E Special report on the trap dykes and azoic rocks of Southeastern Pennsylvania; by Sterry Hunt.
- F Report of progress in the Juniata District on the fossil iron ore beds of Middle Pennsylvania; by John H. Dewees.
- F2 Preliminary report on the paleontology of Perry Co.; by E. W. Claypole.
- F3 Report on the geology of Union, Snyder, Mifflin and Juniata Counties; by E. V. d'Inwilliers.
- G Report of progress in Bradford and Tioga Counties; by Andrew Sherwood and others.
- G4 Geology of Clinton Co.; by H. M. Chance.
- G5 Geology of Susquehanna Co. and Wayne Co.; by I. C. White.
- G6 Geology of Pike and Monroe Counties; by I. C. White. Special surveys of the Delaware and Lehigh Water Gaps; by H. M. Chance.
- G7 Geology of the Susquehanna River region in Wyoming, Lackawanna, Luzerne, Columbia, Montour and Northumberland; by I. C. White.
- GG Geology of Lycoming and Sullivan Counties; by Andrew Sherwood and Franklin Platt.
- GGG Geology of Potter Co.; by Andrew Sherwood and Franklin Platt.
- H Report of progress in the Clearfield and Jefferson District of bituminous coal-fields of Western Pennsylvania; by Franklin Platt.
- H5 Report of progress in Armstrong Co.; by W. G. Platt.
- H6 Report of progress in Jefferson Co.; by W. G. Platt.
- H7 Revision of the bituminous coal measures of Clearfield Co.; by H. M. Chance.
- H8 Report of progress in the Cambria and Somerset District of the bituminous coal-fields of Western Pennsylvania; by F. and W. G. Platt.
- HHHH Report of progress in Indiana Co.; by W. G. Platt.
- I Report of progress in the Venango Co. District; by J. F. Carll. Observations on the geology around Warren; by F. A. Randall. Note on the comparative geology of North-eastern and North-western Pennsylvania and Western New York; by J. P. Lesley.
- I4 Geological report on Warren Co. and the neighboring oil-well regions; with additional oil-well records; by J. F. Carll.
- I5 Seventh report on the oil and gas fields of Western Pennsylvania, for 1887-88; by J. F. Carll.
- II Report of progress: Oil-well records and levels; by J. F. Carll.
- III Geology of the oil regions of Warren, Venango, Clarion and Butler Counties; by J. F. Carll.
- J Special report on the petroleum of Pennsylvania; its production, transportation, manufacture and statistics; by H. E. Wrigley.
- K Report of progress in the Greene and Washington District of the bituminous coal fields; by J. J. Stevenson.
- K4 Report on the coal mines of the Monongahela River region; by J. S. Wall.
- KK Report of progress in the Fayette and Westmoreland District of the bituminous coal-fields of Western Pennsylvania; Pt. 1, Eastern Allegheny Co. and Fayette and Westmoreland Counties west from Chestnut Ridge; by J. J. Stevenson.
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- L Special report on the coke manufacture of the Youghiogheny River Valley in Fayette and Westmoreland Counties; by Franklin Platt.
- M Report of progress in the laboratory of the survey; chemical analyses, 1st-3d; by A. S. McCreath.
- N Two hundred tables of elevation above tide-level of the railroad stations, summits and tunnels, canal locks and dams, etc., in and around Pennsylvania; by Charles Allen.
- O Catalogue of the Geological Museum; by C. E. Hall.
- P Description of the coal flora of the Carboniferous formation in Pennsylvania and throughout the United States; by Leo Lesquereux.
- PP Permian or upper Carboniferous flora of West Virginia and S. W. Pennsylvania; by W. M. Fontaine and I. C. White.
- PPP Ceratioridæ from the upper Devonian measures in Warren Co.; by C. E. Beecher. Eurypteridæ from the lower productive coal measures in Beaver Co.; by James Hall.
- P4 Dictionary of fossils of Pennsylvania and neighboring states named in the reports and catalogues of the surveys; J. P. Lesley, comp.
- Q Report of progress in the Beaver River District of the bituminous coal-fields; by I. C. White.
- QQ Geology of Lawrence Co.; by I. C. White.
- QQQ Geology of Mercer Co.; by I. C. White.
- Q4 Geology of Erie and Crawford Counties; by I. C. White. Discovery of the preglacial outlet of Lake Erie; by J. W. Spencer.
- R Geology of McKean Co., and its connection with that of Cameron, Elk and Forest; by C. A. Ashburner.

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- 122 **PENNSYLVANIA.** Second Geological Survey: Reports—(Continued).
- RR Township geology of Elk and Forest Counties, by C. A. Ashburner; and of Cameron Co., by A. W. Sheaffer.
- T Geology of Blair Co.; by Franklin Platt.
- T2 Geology of Bedford and Fulton Counties; by J. J. Stevenson.
- T3 Geology of Huntingdon Co.; by I. C. White.
- T4 Geology of Centre Co.; by E. V. d'Inwilliers.
- V Pt. 1, Northern townships of Butler Co. Pt. 2, A special survey made in 1875 along the Beaver and Shenango Rivers; by H. M. Chance.
- VV Geology of Clarion Co.; by H. M. Chance.
- X Geological hand atlas of the sixty-seven counties of Pennsylvania embodying the results of the field work of the survey from 1874 to 1884; by J. P. Lesley.
- Z Report on the terminal moraine in Pennsylvania and Western New York; by H. C. Lewis.
- 122a —Same. Grand atlases. Harrisburg, 1884-85. 5 v. in 6, maps, 32 x 26, cl.
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- “ 2, Anthracite coal fields.
- “ 3, Petroleum and bituminous coal fields.
- “ 4, South Mountain and Great Valley topographical maps.
- “ 5, Central and South-eastern Pennsylvania.
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- 178 —Contributions à la flore fossile du Portugal; par Oswald Heer. Comissão dos Trabalhos Geológicos. Lisbonne, 1881. 14 + 51 pp., pl., 13 x 10, pap.
- 184 —Description de la faune jurassique du Portugal: Embranchements des échinodermes; par P. de Loriol. Comissão dos Trabalhos Geológicos. Lisbonne, 1890-91. 175 pp., pl., 13 x 10, pap.
- 185 —Description de la faune jurassique du Portugal: Mollusques lamellebranches; par Paul Choffat. Comissão dos Trabalhos Geológicos. Lisbonne, 1885-88. 76 pp., il., pl., 13 x 10, pap.
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- 182 —Étude géologique du Tunnel du Rocio; contribution à la connaissance du sous-sol de Lisbonne; par Paul Choffat, avec un article paléontologique, par J. C. Berkeley Cotter et un article zoologique, par Albert Girard. Comissão dos Trabalhos Geológicos. Lisbonne, 1889. 106 pp., pl., 13 x 10, pap.
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- 174 —Fauna silurica de Portugal; descripção de uma forma nova de trilobite, Lichas (Uralichas) Ribeiroi. J. F. N. Delgado. Lisboa, 1892. 31 pp., pl., 13 x 10, pap.
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- 166 —*Relatorio da Comissão desempenhada em Hespanha no ano de 1878.* J. F. N. Delgado. Lisboa, 1879. 24 pp., 11 x 9, pap.
- 112 **SWEDEN.** Exhibition of the Geological Survey of Sweden at the Exhibition in Philadelphia, 1876. Stockholm, 1876. 55 pp., 9 x 6, pap.
- TENNESSEE.** *Geologic atlas of the United States: Tennessee folios.* U. S.-Geological Survey. 1894-98. (See Qf-389, 42.)
- 79 —Oil region of Tennessee; with some account of its other resources and capabilities. J. B. Killebrew. Nashville, 1877. 116 pp., il., 8 x 5, pap.
- 108 —Report on the Ocoee and Hiwassee Mineral District. J. B. Killebrew. Nashville, 1876. 67 pp., maps, 8 x 5, pap.
- 124 —Special report on the coal-field of Little Sequatchee; with a general description of the Cumberland Table-land. J. B. Killebrew. Nashville, 1876. 40 pp., map, 8 x 5, pap.
- 42 **TEXAS.** Annual report of the Geological Survey; 1889-91; Nos. 1-3. (Department of Agriculture, Insurance, Statistics and History.) Austin, 1890-92. 3 v., il., pl., maps, 10 x 7, cl.
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- 46 —Partial report on the geology of Western Texas; consisting of a general geological report and a journal of geological observations along the routes traveled by the Expedition between Indianola, Tex., and the Valley of the Mimbres, N. Mex., during the years 1855 and 1856; by George G. Shumard. Department of Agriculture, Insurance, Statistics and History. Austin, 1886. 7 + 145 pp., il., pl., 9 x 6, pap.
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- 158 **TRINIDAD ISLAND.** On the nature and origin of asphalt. Clifford Richardson. Long Island City, 1898. 63 pp., maps, 9 x 3, pap.
- 17 **UNITED STATES.** Annual report of the Geological and Geographical Survey of the Territories; 1st-8th; 1867-74. Wash., 1873-76. 6 v., il., pl., maps, 9 x 6, cl.
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- 104 —Bulletin of the Geological and Geographical Survey of the Territories; v. 1-3. Note: v. 1, No. 4; v. 2, No. 3 wanting. Wash., 1875-77. 3 v. in 9, il., pl., maps, 9 x 6, pap.
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  2. Gold and silver conversion tables; computed by Albert Williams, Jr.
  3. On the fossil faunas of the upper Devonian along the meridian of 76° 30' from Tompkins Co., N. Y., to Bradford Co., Pa.; by H. S. Williams.
  4. On Mesozoic fossils; by C. A. White.
  5. Dictionary of altitudes in the United States; comp. by Henry Gannett.
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- 7, Mapoteca geologica Americana: A catalogue of geological maps of America (North and South) 1752-1881; by Jules and J. B. Marcou.
- 8, On secondary enlargements of mineral fragments in certain rocks; by R. D. Irving and C. R. Van Hise.
- 9, Report of work done in the Washington Laboratory during the fiscal year 1883-84; by F. W. Clarke and T. M. Chatard.
- 10, On the Cambrian faunas of North America; by C. D. Walcott.
- 11, On the Quarternary and recent mollusca of the Great Basin, with descriptions of new forms; by R. E. Call.
- 12, Crystallographic study of the thiolite of Lake Lahontan; by E. S. Dana.
- 13, Boundaries of the United States and most of the several states and territories; by Henry Gannett.
- 14, Electrical and magnetic properties of the iron-carburets; by Carl Barus and Vincent Strouhal.
- 15, On the Mesozoic and Cenozoic paleontology of California; by C. A. White.
- 16, On the higher Devonian faunas of Ontario Co., N. Y.; by J. M. Clarke.
- 17, On the development of crystallization in igneous rocks of Washoe, Nev.; by Arnold Hague and J. P. Iddings.
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- 20, Contributions to the mineralogy of the Rocky Mountains; by Whitman Cross and W. F. Hillebrand.
- 21, Lignites of the Great Sioux Reservation; by Bailey Willis.
- 22, On new Cretaceous fossils from California; by C. A. White.
- 23, Observations on the junction between the eastern sandstone and the Keweenaw series on Keweenaw Point, Lake Superior; by R. D. Irving and T. C. Chamberlin.
- 24, List of marine mollusca comprising the Quaternary fossils and recent forms from American localities between Cape Hatteras and Cape Roque including the Bermudas; by W. H. Dall.
- 25, Present technical condition of the steel industry of the United States; by Phineas Barnes.
- 26, Copper smelting; by H. M. Howe.
- 27, Report of work done in the Division of Chemistry and Physics mainly during the fiscal year, 1884-85.
- 28, The gabbros and associated hornblende rocks occurring in the neighborhood of Baltimore, Md.; by G. H. Williams.
- 29, On the fresh-water invertebrates of the North American Jurassic; by C. A. White.
- 30, Second contribution to the studies on the Cambrian faunas of North America; by C. D. Walcott.
- 31, Systematic review of our present knowledge of fossil insects, including myriapods and arachnids; by S. H. Scudder.
- 32, Lists and analyses of the mineral springs of the United States; by A. C. Peale.
- 33, Notes on the geology of Northern California; by J. S. Diller.
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- 36, Subsidence of fine solid particles in liquids; by Carl Barus.
- 37, Types of the Laramie flora; by L. F. Ward.
- 38, Peridotite of Elliott Co., Ky.; by J. S. Diller.
- 39, Upper beaches and deltas of the glacial Lake Agassiz; by Warren Upham.
- 40, Changes in river courses in Washington Territory due to glaciation; by Bailey Willis.
- 41, On the fossil faunas of the upper Devonian, the Genesee Section, N. Y.; by H. S. Williams.
- 42, Report of work done in the Division of Chemistry and Physics mainly during the fiscal year, 1885-86.
- 43, Tertiary and Cretaceous strata of the Tuscaloosa, Tombigbee and Alabama Rivers; by E. A. Smith and L. C. Johnson.
- 44, Bibliography of North American geology for 1886; by N. H. Darton.
- 45, Present condition of knowledge of the geology of Texas; by R. T. Hill.
- 46, Nature and origin of deposits of phosphate of lime; by R. A. F. Penrose, Jr.
- 47, Analyses of waters of the Yellowstone National Park; by F. A. Gooch and J. E. Whitfield.
- 48, On the form and position of the sea level; by R. S. Woodward.
- 49, Latitudes and longitudes of certain points in Missouri, Kansas and New Mexico; by R. S. Woodward.
- 50, Formulas and tables to facilitate the construction and use of maps; by R. S. Woodward.
- 51, On invertebrate fossils from the Pacific Coast; by C. A. White.
- 52, Subaërial decay of rocks and origin of the red color of certain formations; by J. C. Russell.
- 53, Geology of Nantucket; by N. S. Shaler.
- 54, On the thermo-electric measurement of high temperatures; by Carl Barus.
- 55, Report of work done in the Division of Chemistry and Physics mainly during the fiscal year, 1886-87.

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- 87 UNITED STATES. Bulletin of the Geological Survey—(*Continued*).
  - 55, Fossil wood and lignite of the Potomac formation; by F. H. Knowlton.
  - 57, Geological reconnaissance in Southwestern Kansas; by Robert Hay.
  - 58, Glacial boundary in Western Pennsylvania, Ohio, Kentucky, Indiana and Illinois; by G. F. Wright.
  - 59, The gabbros and associated rocks in Delaware; by F. D. Chester.
  - 60, Report of work done in the Division of Chemistry and Physics mainly during the fiscal year, 1887-88.
  - 61, Contributions to the mineralogy of the Pacific Coast; by W. H. Melville and Waldemar Lindgren.
  - 62, Greenstone schist areas of the Menominee and Marquette regions of Michigan; by G. H. Williams.
  - 63, Bibliography of Paleozoic crustacea from 1698 to 1889; by A. W. Vogdes.
  - 64, Report of work done in the Division of Chemistry and Physics mainly during the fiscal year, 1888-89.
  - 65, Stratigraphy of the bituminous coal field of Pennsylvania, Ohio and West Virginia; by I. C. White.
  - 66, On a group of volcanic rocks from the Tewan Mountains, New Mexico, and on the occurrence of primary quartz in certain basalts; by J. P. Iddings.
  - 67, Relations of the traps of the Newark system in the New Jersey region; by N. H. Darton.
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  - 70, Report on astronomical work of 1889 and 1890; by R. S. Woodward.
  - 71, Index to the known fossil insects of the world; including myriapods and arachnids; by S. H. Scudder.
  - 72, Altitudes between Lake Superior and the Rocky Mountains; by Warren Upham.
  - 73, Viscosity of solids; by Carl Barus.
  - 74, Minerals of North Carolina; by F. A. Genth.
  - 75, Record of North American geology for 1887 and 1889 inclusive; by N. H. Darton.
  - 76, Dictionary of altitudes in the United States (ed. 2); comp. by Henry Gannett.
  - 77, Texan Permian and its Mesozoic types of fossils; by C. A. White.
  - 78, Report of work done in the Division of Chemistry and Physics mainly during the fiscal year, 1889-90.
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  - 80, Correlation papers: Devonian and Carboniferous; by H. S. Williams.
  - 81, Correlation papers: Cambrian; by C. D. Walcott.
  - 82, Correlation papers: Cretaceous; by C. A. White.
  - 83, Correlation papers: Eocene; by W. B. Clark.
  - 84, Correlation papers: Neocene; by W. H. Dall and G. D. Harris.
  - 85, Correlation papers: The Newark system; by I. C. Russell.
  - 86, Correlation papers: Archean and Algonkian; by C. R. Van Hise.
  - 87, Synopsis of American fossil brachiopoda including bibliography and synonymy; by Charles Schuchert.
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  - 89, Some lava flows of the western slope of the Sierra Nevada, Cal.; by F. L. Ransome.
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  - 91, Record of North American geology for 1890; by N. H. Darton.
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  - 93, Some insects of special interest from Florissant, Colo. and other points in the Tertiaries of Colorado and Utah; by H. S. Scudder.
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  - 97, Mesozoic Echinodermata of the United States; by W. B. Clark.
  - 98, Flora of the outlying Carboniferous basins of Southwestern Missouri; by David White.
  - 99, Record of North American geology for 1891; by N. H. Darton.
  - 100, Bibliography and index of the publications of the United States Geological Survey, with the laws governing their printing and distribution; by P. C. Warman.
  - 101, Insect fauna of the Rhode Island coal field; by S. H. Scudder.
  - 102, Catalogue and bibliography of North American Mesozoic invertebrata; by C. B. Boyle.
  - 103, High temperature work in igneous fusion and ebullition, chiefly in relation to pressure; by Carl Barus.
  - 104, Glaciation of the Yellowstone Valley north of the Park; by W. H. Weed.
  - 105, The Laramie and the overlying Livingston formation in Montana; by W. H. Weed.
  - 106, Colorado formation and its invertebrate fauna; by T. W. Stanton.
  - 107, The trap dikes of the Lake Champlain region; by J. F. Kemp and V. F. Marsters.
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  - 109, The eruptive and sedimentary rocks on Pigeon Point, Minn., and their contact phenomena; by W. S. Bayley.

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- 87 UNITED STATES. Bulletin of the Geological Survey—(Continued).
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- 111, Geology of the Big Stone Gap coal field of Virginia and Kentucky; by M. R. Campbell.
- 112, Earthquakes in California in 1892; by C. D. Perrine.
- 113, Report of work done in the Division of Chemistry during the fiscal years 1891-92 and 1892-93.
- 114, Earthquakes in California in 1893; by C. D. Perrine.
- 115, Geographic dictionary of Rhode Island; by Henry Gannett.
- 116, Geographic dictionary of Massachusetts; by Henry Gannett.
- 117, Geographic dictionary of Connecticut; by Henry Gannett.
- 118, Geographic dictionary of New Jersey; by Henry Gannett.
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- 120, Devonian system of Eastern Pennsylvania and New York; by C. S. Prosser.
- 121, Bibliography of North American paleontology, 1888-92; by C. R. Keyes.
- 122, Results of primary triangulation; by Henry Gannett.
- 123, Dictionary of the geographic positions in the United States; comp. by Henry Gannett.
- 124, Revision of the American fossil cockroaches, with descriptions of new forms; by S. H. Scudder.
- 125, Constitution of the silicates; by F. W. Clarke.
- 126, Mineralogical lexicon of Franklin, Hampshire and Hampden Counties, Mass.; by B. K. Emerson.
- 127, Catalogue and index of contributions to North American geology, 1732-1891; by N. H. Darton.
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- 129, Earthquakes in California in 1894; by C. D. Perrine.
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- 131, Report of progress of the Division of Hydrography for the calendar years 1893 and 1894; by F. H. Newell.
- 132, Disseminated lead ores of Southeastern Missouri; by Arthur Winslow.
- 133, Contributions to the Cretaceous paleontology of the Pacific Coast: The fauna of the Knoxville beds; by T. W. Stanton.
- 134, Cambrian rocks of Pennsylvania; by C. D. Walcott.
- 135, Bibliography and index of North American geology, paleontology, petrology and mineralogy for the year 1894; by F. B. Weeks.
- 136, Ancient volcanic rocks of South Mountain, Pa.; by Florence Bascom.
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- 138, Artesian well prospects in the Atlantic coastal plain region; by N. H. Darton.
- 139, Geology of the Castle Mountain Mining District, Mont.; by W. H. Weed and L. V. Pirsson.
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- 141, Eocene deposits of the Middle Atlantic slope in Delaware, Maryland and Virginia; by W. B. Clark.
- 142, Brief contribution to the geology and paleontology of Northwestern Louisiana; by T. W. Vaughan.
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- 144, Moraines of the Missouri coteau and their attendant deposits; by J. E. Todd.
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- 154, Gazetteer of Kansas; by Henry Gannett.
- 155, Earthquakes in California in 1896 and 1897; by C. D. Perrine.
- 156, Bibliography and index of North American geology, paleontology, petrology and mineralogy for the year 1897; by F. B. Weeks.
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- 87 UNITED STATES. Bulletin of the Geological Survey—(Continued).
- 161, Earthquakes in California in 1898; by C. D. Perrine.
- 162, Bibliography and index of North American geology, paleontology, petrology and mineralogy for the year 1898; by F. B. Weeks.
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- v. 2, Tertiary history of the Grand Cañon District; by C. E. Dutton.
- v. 3, Geology of the Comstock Lode and the Washoe District; by G. F. Becker.
- v. 4, Comstock mining and miners; by Eliot Lord.
- v. 5, Copper-bearing rocks of Lake Superior; by R. D. Irving.
- v. 6, Contributions to the knowledge of the older Mesozoic flora of Virginia; by W. M. Fontaine.
- v. 7, Silver-lead deposits of Eureka, Nev.; by J. S. Curtis.
- v. 8, Paleontology of the Eureka District; by C. D. Walcott.
- v. 9, Brachiopoda and lamellibranchiata of the Raritan clays and greensand marls of New Jersey; by R. P. Whitfield.
- v. 10, Dinocera: A monograph of an extinct order of gigantic mammals; by O. C. Marsh.
- v. 11, Geological history of Lake Lahontan, a Quaternary lake of Northwestern Nevada; by I. C. Russell.
- v. 12, Geology and mining industry of Leadville, Colo.; by S. F. Emmons.
- v. 13, Geology of the quicksilver deposits of the Pacific slope; by G. F. Becker.
- v. 14, Fossil fishes and fossil plants of the Triassic rocks of New Jersey and the Connecticut Valley; by J. S. Newberry.
- v. 15, Potomac or younger Mesozoic flora; by W. M. Fontaine.
- v. 16, Paleozoic fishes of North America; by J. S. Newberry.
- v. 17, Flora of the Dakota group; by Leo Lesquereux.
- v. 18, Gasteropoda and cephalopoda of the Raritan clays and greensand marls of New Jersey; by R. P. Whitfield.
- v. 19, Penokee iron-bearing series of Michigan and Wisconsin; by R. D. Irving and C. R. Van Hise.
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- v. 21, Tertiary rhynchophorous coleoptera of the United States; by S. H. Scudder.
- v. 22, Manual of topographic methods; by Henry Gannett.
- v. 23, Geology of the Green Mountains in Massachusetts; by Raphael Pumpelly, J. E. Wolff and T. N. Dale.
- v. 24, Mollusca and crustacea of the Miocene formations of New Jersey; by R. P. Whitfield.
- v. 25, The glacial Lake Agassiz; by Warren Upham.
- v. 26, Flora of the Amboy clays; by J. S. Newberry.
- v. 27, Geology of the Denver Basin in Colorado; by S. F. Emmons, Whitman Cross and G. H. Eldridge.
- v. 28, Marquette iron-bearing district of Michigan; by C. R. Van Hise and W. S. Bayley.
- v. 29, Geology of old Hampshire Co., Mass.; comprising Franklin, Hampshire and Hampden Counties; by B. K. Emerson.
- v. 30, Fossil medusæ; by C. D. Walcott.
- v. 31, Geology of the Aspen Mining District, Colo.; by J. E. Spurr.
- v. 32, Geology of the Yellowstone National Park, Pt. 2. (Pt. 1 wanting.)
- v. 33, Geology of the Narragansett Basin; by N. S. Shaler, J. B. Woodworth and A. F. Foerste.
- v. 34, Glacial gravels of Maine and their associated deposits; by G. H. Stone.
- v. 35, Later extinct floras of North America; by J. S. Newberry.
- v. 36, Crystal Falls iron-bearing district of Michigan; by J. M. Clements and H. L. Smith.

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- 41 **UNITED STATES.** Monographs of the Geological Survey—(Continued).  
v. 37, Fossil flora of the lower coal measures of Missouri; by David White.  
v. 38, Illinois glacial lobe; by Frank Leverett.
- 99 — Notes on the distribution of iron ores in the United States; comp. from various geological reports, by Anthony W. Vogdes. Artillery School. Fort Monroe, 1888. 24 pp., 9 x 7, pap.
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- 38 — Report of the Geological and Geographical Survey of the Territories; v. 6, 8, 12. Wash., 1874-83. 3 v., pl., 12 x 9, cl.
- 39 — Report of the Geological Exploration of the Fortieth Parallel, made under the direction of A. A. Humphreys, Chief of Engineers; by Clarence King. (Professional Papers of the Engineer Department, U. S. Army.) Wash., 1870-80. 7 v., il., pl., maps, tab., 12 x 9 (atlas 31 x 24), pap., cl.
- 106 — Story of American coals. W. J. Nicolls. Phil., 1897. 405 pp., pl., 9 x 6, cl.
- UTAH.** Colorado River Exploring Expedition: Geological report. J. S. Newberry. 1861. (See Qe-114, Pt. 3.)
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- Geological history of Wisconsin and description of areas and quarries. E. R. Buckley. 1898. (See Jc-25, p. 75.)
- 27 —Geology of Wisconsin: Survey of 1873-79. Madison, 1880. 1 v., pl., maps, tab., 10 x 7, cl.
- Geology of Wisconsin water supplies. D. W. Mead. 1894. (See Dc-520.)
- 50 —Hydro-geology of the Upper Mississippi Valley and some of the adjoining territory. D. W. Mead. no place, 1894. 68 pp., maps, tab., 9 x 6, pap.
- 150 —Message in reply to a resolution of the House of Representatives of the 6th of Feb. last, concerning the mineral lands of the United States. U. S.-President. (26th Cong., 1st Sess. House ex. doc. No. 239.) Note: Contains report by David Dale Owen of a geological exploration of part of Iowa, Wisconsin and Illinois. no place, 1840. 161 pp., pl., maps, 9 x 6, b. p. no title-page.
- Penokee iron-bearing series of Michigan and Wisconsin. R. D. Irving and C. R. Van Hise. (U. S. Geological Survey. Monographs, v. 19.) 1892. (See Yh-41.)
- Report of the Committee on Mining and Smelting. Madison, 1853. 13 pp., 8 x 5, b. p. Aj-1, p. 770.
- WYOMING.** Bear River formation and its characteristic fauna. C. A. White. (U. S. Geological Survey. Bulletin No. 128.) 1895. (See Yh-87.)
- Dinocerata: A monograph of an extinct order of gigantic mammals. O. C. Marsh. (U. S. Geological Survey. Monographs, v. 10.) 1886. (See Yh-41.)
- Geologic atlas of the United States: Wyoming folios. U. S.-Geological Survey. 1894-98. (See Qf-389.50.)
- Geological reconnaissance in Northwest Wyoming. G. H. Eldridge. (U. S. Geological Survey. Bulletin No. 119.) 1894. (See Yh-87.)
- Report upon the reconnaissance of Northwestern Wyoming; including Yellowstone National Park, made in the summer of 1873; by William A. Jones; with appendix. U. S.-Corps of Engineers. 1875. (See Qc-48.)
- YELLOWSTONE NATIONAL PARK.** Report of a reconnaissance from Carroll, Montana Territory, on the Upper Missouri, to the Yellowstone National Park, and return, made in the summer of 1875; by William Ludlow. 1876. (See Qc-35.)
- Report upon the reconnaissance of Northwestern Wyoming; including Yellowstone National Park, made in the summer of 1873; by William A. Jones; with appendix. U. S.-Corps of Engineers. 1875. (See Qc-48.)

## GENERAL SCIENCE—MATHEMATICS.

## Yh9

## ALGEBRA.

- 60 **BRIOT, CHARLES.** Leçons d'algèbre conformes aux programmes officiels de l'enseignement des lycées; première partie, à l'usage des élèves de la classe de seconde et des candidats au baccalauréat ès sciences, à l'École de marine, et à l'École militaire de Saint-Cyr; précédée d'une introduction à l'usage des élèves de la classe de troisième. ed. 4. Paris, 1858. 7 + 299 pp., 9 x 5, pap.
- 29 **DAY, JEREMIAH.** Introduction to algebra; being the first part of a course of mathematics, adapted to the method of instruction in the American colleges. ed. 4. New Haven, 1827. 7 + 332 pp., pl., 8 x 5, sh.
- 52 **JONES, G. W.** Drill-book in algebra. Ithaca, 1892. 16 + 272 pp., 7 x 5, cl.
- 78 **LAGOUT, ÉDOUARD.** Panorama de l'algèbre. Paris, 1879. 72 pp., il., 8 x 5, pap.
- 56 **MERRIMAN, MANSFIELD.** Final formulas for the algebraic solution of quartic equations. N. Y., 1892. pp. 201-205, 8 x 5, pap.
- 69 **MURPHY, ROBERT.** Treatise on the theory of algebraical equations. (Library of Useful Knowledge.) Lond., 1839. 171 pp., 9 x 5, b. p.
- 21 **ROBINSON, H. N.** Theoretical and practical treatise on algebra; in which the excellencies of the demonstrative methods of the French are combined with the more practical operations of the English, and concise solutions pointed out and particularly inculcated; designed for schools, colleges and private students. ed. 38. N. Y., 1858. 360 pp., 8 x 5, sh.
- 75 **VOSE, G. L.** Graphic method for solving certain algebraic problems. (Van Nostrand's Science Ser.) N. Y., 1875. 62 pp., il., pl., 6 x 4, bds.



Yh9—(Continued).

## ARITHMETIC.

- 85 **BARAVELLI, G. C.** Nota su alcuni aiuti alla esecuzione dei calcoli numerica. Roma, 1895. 27 pp., 11 x 8, pap.
- 7 **HALL, J. H.** Tables of squares, containing the true square of every foot and fraction thereof from 0 to 100 feet, advancing by one-sixteenth of an inch. Chic., 1899. 7 + 99 pp., 6 x 3, mor.
- 8 **HEATH, NOBLE.** Treatise on arithmetic, through which the entire science can be most expeditiously and perfectly learned without the aid of a teacher; designed for the use of schools and private students. Phil., 1856. 455 pp., 7 x 5, sh.
- 65 **KENT, W. S. G.** Some properties and tables of the one quarter squares of numbers. Phillipsburg, 1876. unpagéd, 12 x 8, pap.
- NYSTROM, J. W.** Duodenal system of arithmetic, measures, weights, and coins. 1875. (See V-76, p. 307.)
- 2 **PORTER, J. H., and R.** Porters' new system of mathematics, with the addition of a complete ready reckoner; for the use of farmers and mechanics. ed. 3. Hartford, 1843. 72 pp., 7 x 4,  $\frac{1}{2}$  skiv.

## CALCULUS.

- 10 **CARLL, L. B.** Treatise on the calculus of variations arranged with the purpose of introducing, as well as illustrating, its principles to the reader by means of problems, and designed to present in all important particulars a complete view of the present state of the science. N. Y., 1881. 17 + 568 pp., 9 x 6, cl.
- 74 **GOULD, E. S.** Primer of the calculus. N. Y., 1896. 91 pp., pl., 6 x 4, bds.
- 33 **HADDON, JAMES.** Examples and solutions of the differential calculus. new ed. Lond., no date. 4 + 162 pp., il., 7 x 4, cl.
- 31 **HANN, JAMES.** Examples on the integral calculus. Lond., 1850. 128 pp., 7 x 4, cl.
- 41 **LAGRANGE, J. L.** Leçons sur le calcul des fonctions, servant de commentaire et de supplement à la théorie des fonctions analytiques. Paris, 1808. 325 + 90 pp., 10 x 8,  $\frac{1}{2}$  skiv.
- 42 —Théorie des fonctions analytiques, contenant les principes du calcul différentiel, dégagés de toute considération d'infiniment petits, d'évanouissans, de limites et de fluxions, et réduits à l'analyse algébrique des quantités finies; revue et suivie d'une note, par J. A. Serret. ed. 3, rev. Paris, 1847. 12 + 399 pp., 10 x 8,  $\frac{1}{2}$  ro.
- 11 **MACLAURIN, COLIN.** Treatise on fluxions; to which is prefixed an account of his life; the whole carefully corrected and revised by an eminent mathematician. ed. 2. Lond., 1801. 2 v., pl., 8 x 5, cf.
- 57 **RICE, J. M., and W. W. JOHNSON.** On a new method of obtaining the differentials of functions, with especial reference to the Newtonian conception of rates or velocities. rev. ed. N. Y., 1875. 32 pp., il., 7 x 5, pap.
- 36 **WOOLHOUSE, W. S. B.** Elements of the differential calculus. Lond., 1852. 8 + 160 pp., 7 x 4, cl.

## GENERAL.

- 97 **BAKER, T.** Formulæ, rules, and examples for candidates for the military, naval, and civil service examinations, also for mathematical students and engineers. Note: A collection of formulæ, rules and examples in every branch of mathematics. Lond., 1862. various pagings, 7 x 5, cl.
- BARLOW, PETER.** New mathematical and philosophical dictionary; comprising an explanation of the terms and principles of pure and mixed mathematics and such branches of natural philosophy as are susceptible of mathematical investigation. 1814. (See U-31.)
- BIXBY, W. H.** Method of general numerical solution as to both solution of equations and interpolation in series; selected from the "Proceedings of the London Mathematical Society." 1880. (See Fb-30, p. 9.)
- 6 **BYRNE, OLIVER.** Practical, short, and direct methods of calculating the logarithm of any given number and the number corresponding to any given logarithm. N. Y., 1849. 82 pp., 8 x 5, cl.
- 23 **CALLET, FRANÇOIS.** Tables portatives de logarithmes, contenant les logarithmes des nombres depuis 1 jusqu'à 108 000; les logarithmes des sinus et tangentes, de seconde en seconde pour les cinq premiers degrés, de dix en dix secondes pour tous les degrés du quart de cercle; et suivant la nouvelle division centésimale de dix-millième en dix-millième. Paris, 1795 (tirage, 1843). 118 + 680 pp., 9 x 6,  $\frac{1}{2}$  cf.
- 81 **CHRISTENSEN, C. C.** Graphical diagram for approximate calculations for civil and mechanical engineers, architects and contractors. Chic., 1890. blue print, 26 x 6, pap.
- 24 **CLAUDEL, J.** Introduction théorique et pratique à la science de l'ingénieur. Contents: Pt. 1, Arithmétique. Pt. 2, Algèbre. Pt. 3, Géométrie. Pt. 4, Trigonométrie. Pt. 5, Tracé et mesure des courbes. Pt. 6, Statique. Pt. 7, Dynamique. Pt. 8, Hydrostatique et hydrodynamique. Paris, 1848. 11 + 447 pp., il., 9 x 6, pap.

## Yh9—(Continued).

## GENERAL—(Continued).

- 26 **COMTE, AUGUSTE.** Philosophy of mathematics; tr. fr. the Cours de philosophie positive, by W. M. Gillespie. N. Y., 1851. 260 pp., 9 x 6, cl.
- 38 **CONDORCET, MARQUIS DE.** Essai sur l'application de l'analyse à la probabilité des décisions rendues à la pluralité des voix. Paris, 1785. 191 + 304 pp., 10 x 8, cf.
- CROCKETT, C. W.,** ed. Tables of common logarithms of numbers; logarithms of trigonometric functions. 1896. (See R-31, p. 383.)
- 18 **EATON, AMOS.** Prodromus of a practical treatise on the mathematical arts; containing directions for surveying and engineering. Troy, 1838. 7 + 191 pp., il., pl., 9 x 5, bds.
- 54 **FILIPOWSKI, H. E.** Table of anti-logarithms; containing to seven places of decimals, natural numbers answering to all logarithms from .00001 to .99999; and an improved table of Gauss's logarithms, by which may be found the logarithm to the sum or difference of two quantities whose logarithms are given; preceded by an introduction, containing also the history of logarithms, their construction, and the various improvements made thereon since their invention; with an appendix, containing a table of annuities for three joint lives at three per cent, Carlisle. ed. 2, rev. Lond., 1851. 16 + 220 + 10 pp., 9 x 6, cl.
- 49 **FISHER, THOMAS.** Mathematics simplified and made attractive; or, the Laws of motion explained. Note: Plates wanting. Phil., 1853. 128 pp., 9 x 5, cl.
- 22 **GREGORY, OLINTHUS.** Mathematics for practical men; being a common-place book of principles, theorems, rules and tables, in various departments of pure and mixed mathematics, with their application especially to the pursuits of surveyors, architects, mechanics and civil engineers. 1st Amer. fr. 2d Lond. ed. Phil., 1834. 12 + 427 pp., pl., 9 x 5, sh.
- 80 **HAGEN, G.** Grundzüge der Wahrscheinlichkeits-Rechnung. ed. 3, rev. Ber., 1882. 10 + 219 pp., 9 x 6, pap.
- 37 **HASSLER, F. R.** Logarithmic and trigonometric tables, to seven places of decimals, in a pocket form; in which the errors of former tables are corrected. N. Y., 1830. 10 pp., tab., 7 x 4, sh.
- HEATHER, J. F.** Treatise on mathematical instruments; including most of the instruments employed in drawing, for assisting the vision, in surveying and levelling, in practical astronomy, and for measuring the angles of crystals; in which their construction and the methods of testing, adjusting and using them are concisely explained. 1849. (See R-76.)
- 53 **HOLMAN, S. W.** Computation rules and logarithms, with tables of other useful functions. N. Y., 1896. 45 + 73 pp., 10 x 7, cl.
- 39 **HUTTON, CHARLES.** Course of mathematics, composed for the use of the Royal Military Academy; entirely re-modelled, and adapted to the course of instruction now pursued in the Royal Military Academy, by William Rutherford. new ed. Lond., 1849. 7 + 895 pp., il., 9 x 6, cl.
- 19 — Course of mathematics for the use of academies as well as private tuition; with many corrections and improvements by Olinthus Gregory; with the additions of Robert Adrain. 5th Amer. fr. 9th Lond. ed. N. Y., 1831. 2 v., il., pl., 9 x 5, cf.
- Mathematical and philosophical dictionary; containing an explanation of the terms, and an account of the several subjects comprised under the heads, mathematics, astronomy and philosophy, both natural and experimental. 1795-96. (See U-26.)
- JOHNSON, J. B.** Johnson's tables: Stadia and earthwork tables; four-place logarithms, logarithmic traverse table, natural functions, map projections, etc. 1892. (See V-17.)
- 40 **JONES, G. W.** Logarithmic tables. ed. 4. Lond., 1893. 160 pp., 10 x 7, cl.
- 55 **LAMPE, E.** Die Entwicklung der Mathematik im Zusammenhange mit der Ausbreitung der Kultur: Rede zum Geburtsfeste Seiner Majestät des Kaisers und Königs, Wilhelm II., in der Aula der Königlichen Technischen Hochschule zu Berlin am 26. Januar, 1893 gehalten. Ber., 1893. 26 pp., 11 x 8, pap.
- 62 — Die reine Mathematik in den Jahren 1884-1899; nebst Actenstücken zum Leben von Siegfried Aronhold, Weiland Professor der Mathematik, 1860-1883, an der Königlichen Technischen Hochschule zu Berlin. Ber., 1899. 48 pp., por., 10 x 7, pap.
- 35 **LAW, HENRY.** Mathematical tables for facilitating astronomical, nautical, trigonometrical and logarithmic calculations. Lond., 1851. 165 pp., 7 x 4, b. p.
- 35 — Rudimentary treatise on logarithms. Lond., 1851. 68 pp., 7 x 4, b. p.
- 68 **MATHEMATICS.** (Library of Useful Knowledge.) Contents: v. 1, Study and difficulties of mathematics; arithmetic and algebra, and examples of the processes. v. 2, Geometry; trigonometry. v. 3, Algebraical geometry. v. 4, Calculus. Note: For appendix to v. 1, See Yh9-69, p. 172. Lond., 1830-42. 4 v. in 6, il., 9 x 5, ½ cf.
- 58 **MERRIMAN, MANSFIELD.** Elementary discussion of the principles of least squares. Phil., 1877. 15 pp., il., 9 x 6, pap.

## Yh9—(Continued).

## GENERAL—(Continued).

- 59 —List of writings relating to the method of least squares, with historical and critical notes. no place, 1877 (?) 232 pp., 9 x 6, pap.
- Method of least squares applied to a hydraulic problem. 1877. (See Da-41.)
- OZANAM.** Recreations in mathematics and natural philosophy: lately recomposed, and greatly enlarged by Montucla, and now translated into English, and improved with many additions and observations, by Charles Hutton. 1803. (See Y1-34.)
- 73 **POCKET LOGARITHMS TO FOUR PLACES OF DECIMALS, INCLUDING** logarithms of numbers and logarithmic sines and tangents to single minutes; to which is added a table of natural sines, tangents and cotangents. (Van Nostrand's Science Ser.) N. Y., 1883. 139 pp., 6 x 4, bds.
- POSERN, F.** Resultate aus der reinen Mathematik. 1885. (See V-27, Pt. 1, v. 1, p. 408.)
- 83 **RICE, H. L.** Theory and practice of interpolation, including mechanical quadrature, and other important problems concerned with the tabular values of functions. Lynn, 1899. 9 + 234 pp., tab., 12 x 8, cl.
- 79 **RINECKER, F.** Der logarithmische Rechenschieber und seine practische Anwendung. Würzburg, 1879. 43 pp., pl., 9 x 6, pap.
- 45 **SCHRÖN, L.** Tables de logarithmes à sept décimales, pour les nombres depuis 1 jusqu'à 108 000, et pour les fonctions trigonométriques de dix en dix secondes; précédés d'une introduction française, par J. Hoüel. ed. 6, rev. Brunswick, 1866. various pagings, 10 x 7,  $\frac{1}{2}$  mor.
- SCRIBNER, J. M.** Engineer's, contractor's and surveyor's pocket table-book; comprising logarithms of numbers, logarithmic sines and tangents, natural sines and natural tangents, the traverse table, and a full and complete set of excavation and embankment tables; together with numerous other valuable tables for engineers, etc. ed. 10, rev. 1878. (See V-3.)
- 76 **SÉGUIN.** Tables: Des carrés et des cubes des nombres entiers successifs de 1 à 10 000; des longueurs des circonférences et des surfaces des cercles dont les diamètres sont exprimés par les nombres entiers successifs de 1 à 1 000; des expressions trigonométriques naturelles des angles successifs de minute en minute; introductions à ces tables, par J. Claudel. Paris, 1850. 37 + 105 pp., 9 x 6, pap.
- 66 **TICHY, ANTON.** Graphische Logarithmen-Tafeln. Wien, 1897. 6 + 30 pp., il., 10 x 6, pap.
- 1 **UNITED STATES—BUREAU OF EDUCATION.** The teaching and history of mathematics in the United States; by Florian Cajori. (Circular of Information No. 3.) Wash., 1890. 400 pp., 9 x 6, pap.
- 5 **UNITED STATES—BUREAU OF NAVIGATION.** Logarithms of sines and cosines, with the argument in time. Wash., 1874. 7 pp., tab., 9 x 6, pap.
- 30 **VEGA, BARON VON.** Logarithmic tables of numbers and trigonometrical functions; tr. fr. the fortieth or Dr. Bremiker's thoroughly revised and enlarged edition, by W. L. F. Fischer. ed. 55. Ber., 1872. 28 + 575 pp., 9 x 6,  $\frac{1}{2}$  mor.
- 46 **YOUNG, J. R.** Mathematical tables; comprehending the logarithms of all numbers from 1 to 36 000; also the natural and logarithmic sines and tangents computed to seven places of decimals, and arranged on an improved plan; with several other tables, useful in navigation and nautical astronomy, and in other departments of practical mathematics. ed. 2. Lond., 1834. 26 + 190 pp., 8 x 4, cl.
- 70 **ZIMMERMANN, H.** Rechentafel nebst Sammlung häufig gebrauchter Zahlenwerthe. Ber., 1891. 34 + 204 pp., 10 x 7, cl.
- GEOMETRY.**
- 72 **ARGAND, J. R.** Imaginary quantities; their geometrical interpretation, tr. fr. the French, by A. S. Hardy. N. Y., 1881. 135 pp., il., 6 x 4, bds.
- 82 **BAILLAIRGÉ, C. P. F.** Papers read before the Royal Society of Canada, 1882 and 1883. Contents: 1, General application of the prismoidal formula. 2, Hints to geometers for a new edition of Euclid. 3, Simplified solutions of problems in hydrography and parting off land. 4, The areas of spherical triangles and polygons to any radius or diameter. Quebec, 1884. 42 pp., il., 8 x 6, pap.
- 77 —The stereometicon; new system of measuring all bodies by one and the same rule; general application of the prismoidal formula; nomenclature and general features of each of the 200 models on the board; the areas of spherical triangles and polygons to any radius or diameter; tables. Quebec, 1884. 61 pp., 9 x 6, pap.
- 17 **BROOKS, EDWARD.** Plane and solid geometry: A complete course in the elements of the science. Phil., 1889. 415 pp., il., 8 x 6, cl.
- 3 **BURN, R. S.** Illustrated London practical geometry, and its application to architectural drawing; for the use of schools and students. Lond., 1853. 3 + 77 pp., il., 8 x 5, cl.



## Yh9—(Continued).

## GEOMETRY—(Continued).

- 86 **CASTRO, A. A. DE.** Soluzione grafica della trisezione dell' angolo. Roma, 1899. 16 pp., pl., 10 x 7, pap.
- 4 **DAVIES, CHARLES.** Elements of descriptive geometry, with their application to spherical trigonometry, spherical projections, and warped surfaces. Phil., 1826. 7 + 228 pp., il., pl., 9 x 5,  $\frac{3}{4}$  sh.
- 61 — Examination of the demonstrations of Davies' Legendre, showing how the polygon becomes the circle, by the methods of Newton. N. Y., 1873. 3 + 36 pp., il., 7 x 5, pap.
- Treatise on shades and shadows and linear perspective. 1832. (See R-20.)
- 44 **DAVIS, JOHN.** Measure of the circle, perfected Jan., 1845. Providence, 1854. 156 pp., il., 9 x 5, cl.
- 51 **DAY, JEREMIAH.** Practical application of the principles of geometry to the mensuration of superficies and solids; adapted to the method of instruction in schools and academies. N. Y., 1848. 100 + 84 + 84 pp., il., 8 x 4, b. p.
- 50 **EUCLID.** First six books of the elements of Euclid, in which colored diagrams and symbols are used instead of letters for the greater ease of learners; by Oliver Byrne. Lond., 1847. 29 + 268 pp., il., 10 x 7,  $\frac{1}{2}$  cf.
- 63 **FERREL, WILLIAM.** Converging series expressing the ratio between the diameter and the circumference of a circle. (Smithsonian Contributions to Knowledge.) no place, 1871. 6 pp., 13 x 10, pap.
- GEOMETRY, PLANE, SOLID, SPHERICAL;** to which is added in an appendix the theory of projection, so far as it is auxiliary to geometry. (Library of Useful Knowledge.) 1830. (See Yh9-68, v. 2, p. 1.)
- 32 **HANN, JAMES.** Rudimentary treatise on analytical geometry and conic sections. Lond., 1850. 128 pp., il., 7 x 4, cl.
- 9 **KOSAK, GEORG.** Katechismus der speziellen darstellenden Geometrie für Maschinen- und Bau-Constructeure, Real- und Gewerbeschulen, etc. Wien, 1871. 178 pp., il., 2 pl., 7 x 4, bds.
- 25 **LEGENDRE, A. M.** Elements of geometry; tr. fr. the French, for the use of the students of the University at Cambridge, New England; by John Farrar. new ed., enl. Bost., 1831. 15 + 235 pp., 16 pl., 10 x 6, bds.
- MAHAN, D. H.** Descriptive geometry, as applied to the drawing of fortification and stereotomy; for the use of the cadets at the United States Military Academy. 1864. (See Lc-3.)
- 48 **NARRIEN, JOHN.** Analytical geometry; with the properties of conic sections, and an appendix constituting a tract on descriptive geometry; for the use of the Royal Military College. Lond., 1846. 24 + 202 pp., il., 9 x 5, cl.
- 14 **PASLEY, SIR C. W.** Complete course of practical geometry and plan drawing; treated on a principle of peculiar perspicuity; adapted either for classes or for self-instruction. ed. 2, enl. Lond., 1838. 47 + 608 pp., il., 9 x 6, cl.
- 15 **PERKINS, G. R.** Plane and solid geometry; to which is added plane and spherical trigonometry and mensuration, accompanied with all the necessary logarithmic and trigonometric tables. N. Y., 1856. various pagings, il., 9 x 6, sh.
- 13 **PLAYFAIR, JOHN.** Elements of geometry; containing the first six books of Euclid, with a supplement on the quadrature of the circle and the geometry of solids; to which are added elements of plane and spherical trigonometry, fr. the last Lond. ed., enl. N. Y., 1824. 333 pp., il., 9 x 5, cf.
- 27 **SCHOLFIELD, NATHAN.** Higher geometry and trigonometry; being the third part of a series on elementary and higher geometry, trigonometry and mensuration. N. Y., 1845. 232 + 250 + 10 pp., il., 9 x 6,  $\frac{1}{2}$  mor.
- 16 **SEARLE, G. M.** Elements of geometry; with an appendix containing problems and additional propositions. N. Y., 1877. 6 + 135 pp., il., 9 x 6, cl.
- 84 **SIMPSON, THOMAS.** Elements of geometry; with their application to the mensuration of superficies and solids, to the determination of the maxima and minima of geometrical quantities, and to the construction of a great variety of geometrical problems. ed. 5, rev. Lond., 1800. 11 + 276 pp., il., 9 x 5, sh.
- 47 **SIMSON, ROBERT.** Elements of the conic sections; tr. fr. the Latin original; for the use of students of mathematics. ed. 2. Edin., 1792. 284 pp., 14 pl., 8 x 5, sh.
- 71 **WATSON, WILLIAM.** Course in descriptive geometry; for the use of colleges and scientific schools. Lond., 1875. 11 + 47 pp., 32 pl., 12 x 9, cl.
- WAUD, S. W.** Treatise on algebraical geometry. (Library of Useful Knowledge.) 1835. (See Yh9-68, v. 3.)
- 64 **WILLSON, F. N.** A completed nomenclature for the principal roulettes. no place, 1887. 15 pp., il., pl., 10 x 8, pap.
- 28 **YOUNG, J. R.** Elements of geometry; with notes. Lond., 1827. 10 + 208 pp., il., 9 x 6, cl.

Yh9—(*Continued*).

## TRIGONOMETRY.

- 51 **DAY, JEREMIAH.** Treatise of plane trigonometry and the mensuration of heights and distances; to which is prefixed a summary view of the nature and use of logarithms; adapted to the method of instruction in schools and academies. N. Y., 1848. 153 pp., il., 8 x 4, b. p.
- 43 **FARRAR, JOHN.** Elementary treatise on the application of trigonometry to orthographic and stereographic projection, dialling, mensuration of heights and distances, navigation, nautical astronomy, surveying and levelling; together with logarithmic and other tables; designed for the use of the students of the University at Cambridge, New England. ed. 3. Bost., 1833. 8 + 155 pp., 9 pl., tab., 9 x 5, bds.
- GUMMERE, JOHN.** Treatise on surveying, containing the theory and practice; to which is prefixed a perspicuous system of plane trigonometry, the whole clearly demonstrated and illustrated by a large number of appropriate examples, particularly adapted to the use of schools; enlarged by the addition of articles on the theodolite; levelling and topography. 1833. (See R-18.)
- 12 **HACKLEY, C. W.** Treatise on trigonometry, plane and spherical, with its application to navigation and surveying, nautical and practical astronomy, and geodesy, with logarithmic, trigonometrical and nautical tables; for the use of schools and colleges. ed. 4. N. Y., 1860. 372 pp., il., tab., 9 x 6, ½ mor.
- 34 **HANN, JAMES.** Elements of spherical trigonometry. Lond., 1849. 68 pp., il., 7 x 4, cl.
- 37 **HASSLER, F. R.** Logarithmic and trigonometric tables, to seven places of decimals, in a pocket form; in which the errors of former tables are corrected. N. Y., 1830. 10 pp., tab., 7 x 4, sh.
- HOPKINS, W.** Elements of trigonometry. (Library of Useful Knowledge.) 1833. (See Yh9-68, v. 2, p. 273.)
- 15 **PERKINS, G. R.** Plane and solid geometry; to which is added plane and spherical trigonometry and mensuration, accompanied with all the necessary logarithmic and trigonometric tables. N. Y., 1856. various pagings, il., 9 x 6, sh.
- 27 **SCHOLFIELD, NATHAN.** Higher geometry and trigonometry; being the third part of a series on elementary and higher geometry, trigonometry and mensuration. N. Y., 1845. 232 + 250 + 10 pp., il., 9 x 6, ½ mor.
- 20 **YOUNG, J. R.** Elements of plane and spherical trigonometry with its applications to the principles of navigation and nautical astronomy; with the logarithmic and trigonometrical tables; to which are added some original researches in spherical geometry, by T. S. Davies; rev. and cor. by J. D. Williams. Phil., 1833. 148 pp., il., 9 x 5, b. p.

## GENERAL SCIENCE—METALLURGY.

## Yi

## COPPER.

- HOWE, H. M.** Copper smelting. (U.S. Geological Survey. Bulletin No. 26.) 1885. (See Yh-87.)
- 3 **LE PLAY.** Description des procédés métallurgiques employés dans le pays de Galles pour la fabrication du cuivre et recherches sur l'état actuel et sur l'avenir probable de la production et du commerce de ce métal. Paris, 1848. 496 pp., 4 pl., 9 x 6, pap.
- 31 **PAINTER, HOWARD.** Report on the metallurgy of lead, silver, copper and zinc. Wash., 1875. 16 + 237 pp., tab., 9 x 6, pap.
- REGNAULT, VICTOR.** Metallurgy of copper. 1860. (See Yd-4, v. 2, p. 247.)
- THURSTON, R. H.** Non-ferrous metals and alloys: Copper, tin, zinc, etc., brass, bronze, etc. 1898. (See V-89, v. 3.)

## GENERAL.

- 73 **ALTHAUS, F.** Das Berg- und Hüttenwesen auf der Weltausstellung zu Philadelphia im Jahre 1876. Ber., 1877. 45 pp., il., 11 x 9, pap.
- 16 **BARNUM, E. M., and H. S. JACOBS.** Prospectus upon the treatment of ores by dry crushing and concentration and subsequent reduction at large smelting works; with description of Jacobs' union ore concentrator. N. Y., 1871. 31 pp., 9 x 6, pap.
- BENJAMIN, PARK.** Electrolysis: Electro-metallurgy and the storage battery. 1892. (See Ha-29, p. 182.)
- 21 **CORDELLA, A.** Mining and metallurgical industries of Laurium for the exhibition of Chicago, U. S. A. Athenes, 1893. 16 pp., 9 x 6, pap.
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- 57 — Rules of practice in the United States Patent Office, Nov., 1876. no place, 1876. 70 pp., pl., 9 x 6, pap.
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- 57b — Same; in force Feb. 9th, 1897. no place, 1897. 144 pp., pl., 9 x 6, pap.
- 48 — Specifications and drawings of patents (monthly); July, 1871-July, 1875. Note: Volumes issued weekly from July, 1871 to Aug., '72. Wash., 1871-75. 90 v., il., pl., 11 x 7, sh.
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## GENERAL SCIENCE—PHYSICS.

## YI

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- torical sketches of the rise, progress and present state of the several departments of these sciences; and an account of the discoveries and writings of the most celebrated authors, both ancient and modern. 1814. (See U-31.)
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- 61 — Problems of rotary motion presented by the gyroscope, the precession of the equinoxes, and the pendulum. Wash., 1871. 3 + 43 pp., 13 x 10, pap.
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- 15 **COMPTON, A. G.** On a method of obtaining autographic records of the free vibrations of a tuning-fork; and on the autographic recording of beats. no place, no date. pp. 444-453, il., 9 x 6, pap. no title-page.
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- 27 **POTTER, RICHARD.** Elementary treatise on optics; containing all the requisite propositions carried to first approximations; with the construction of optical instruments. Lond., 1847. 8 + 163 pp., il., tab., 9 x 6, cl.
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- 21 **RENWICK, JAMES.** Familiar illustrations of natural philosophy; selected principally from Daniel's Chemical philosophy. N. Y., 1840. 403 pp., il., 6 x 4, b. p.
- 62 **ROGER, JOHN.** Energy and heat. N. Y., 1899. 36 pp., 7 x 4, cl.
- 62a — Same: Supplement: The thermometric scale; combustion: A theory. N. Y., 1899. pp. 41-56, pl., 7 x 4, pap.
- RUMFORD, B. T. COUNT.** Account of a curious phenomenon observed on the glaciers of Chamouny; together with some occasional observations concerning the propagation of heat in fluids. 1873. (See YI-7, v. 2, p. 251.)
  - Account of some experiments on coloured shadows. 1875. (See YI-7, v. 4, p. 49.)
  - Account of some new experiments on the temperature of water at its maximum density. 1873. (See YI-7, v. 2, p. 258.)
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  - Experimental inquiry concerning the source of the heat which is excited by friction. 1870. (See YI-7, v. 1, p. 469.)
  - Experimental investigations concerning heat. 1873. (See YI-7, v. 2, p. 131.)
  - Experiments and observations on the adhesion of the particles of water to each other. 1873. (See YI-7, v. 2, p. 290.)
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  - Historical review of the various experiments of the author on the subject of heat. 1873. (See YI-7, v. 2, p. 188.)
  - Inquiries concerning the mode of the propagation of heat in liquids. 1873. (See YI-7, v. 2, p. 274.)
  - Inquiry concerning the chemical properties that have been attributed to light. 1875. (See YI-7, v. 4, p. 73.)
  - Inquiry concerning the nature of heat, and the mode of its communication. 1873. (See YI-7, v. 2, p. 23.)
  - Inquiry concerning the source of the light which is manifested in the combustion of inflammable bodies. 1875. (See YI-7, v. 4, p. 207.)
  - Inquiry concerning the weight ascribed to heat. 1873. (See YI-7, v. 2, p. 1.)
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  - On the management of light in illumination. 1875. (See YI-7, v. 4, p. 99.)
  - Propagation of heat in fluids. 1870. (See YI-7, v. 1, p. 237.)
  - Reflections on heat. 1873. (See YI-7, v. 2, p. 166.)
  - Researches upon the heat developed in combustion and in the condensation of vapours. 1873. (See YI-7, v. 2, p. 370.)
- 5 **SAELTZER, ALEXANDER.** Treatise on acoustics in connection with ventilation; and an account of the modern and ancient methods of heating and ventilation. N. Y., 1872. 103 pp., 7 x 5, cl.
- 39 **SAKAI, S., and E. YAMAGUCHI.** Measurement of the force of gravity at Naha. (Okinawa) and Kagoshima. (Memoirs of the Science Department, University of Tokio. Appendix to No. 5.) Tokio, 2544 (1884). 22 pp., 11 x 8, pap.
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- 48 **SINGLETON, M. T.** Gravitation and cosmological law: A mathematical demonstration of the secret of gravitation and attendant phenomena. Atlanta, 1895. 23 pp., il., 9 x 6, pap.
- 50 **SLABY, A.** Das Gesetz von der Erhaltung der Energie und seine Bedeutung für die Technik Rede zum Geburtsfeste Seiner Majestät des Kaisers und Königs Wilhelm II, in der Aula der Königlichen Technischen Hochschule zu Berlin am 26, Januar, 1895. Ber., 1895. 13 pp., 11 x 8, pap.
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- TREATISE ON OPTICS;** and the double refraction and polarisation of light. 1829. (See YI-1, v. 1, Pt. 2, p. 97.)
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- 17 —Gravity research; determinations of gravity with half-second pendulums on the Pacific Coast, in Alaska, and at Washington, D. C., and Hoboken, N. J.; by T. C. Mendenhall. Wash., 1892. pp. 503-564, pl., 9 x 6, pap.
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- 19 —Methods and results on a chart, of the magnetic declination in the United States. Wash., 1879. 4 pp., map, 12 x 9, pap.
- 2 **UNITED STATES—GEOLOGICAL SURVEY.** Magnetic declination in the United States; by Henry Gannett. Wash., 1896. pp. 203-440, maps, tab., 12 x 8, pap.
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- 3 **UNITED STATES—NAVY DEPARTMENT.** Report upon some of the magnetic observatories of Europe; by C. C. Marsh. (Washington Observations, 1887. Appendix 1.) Wash., 1891. 37 pp., il., 6 pl., 12 x 9, pap.



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- 56 **WHIPPLE, SQUIRE.** Investigation as to the mode and amount of attraction between large and small bodies in contact, or at small distances. no place, 1877. 18 pp., 8 x 5, pap. no title-page.
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- 31 **WINKLER, ALEX.** Probleme aus der Wärmelehre. Wien, 1873. 6 + 89 pp., il., pl., 9 x 6, bds.
- 11 **WOOD, DE VOLSON.** Luminiferous æther. no place, 1886. 64 pp., 10 x 6, pap.
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- WOODWARD, R. S.** On the form and position of the sea level. (U. S. Geological Survey. Bulletin No. 48.) 1888. (See Yh-87.)
- 10 **WÜLLNER, A.** Die Entwicklung der Grundanschauungen in der Physik im Laufe unseres Jahrhunderts: Rede zum Geburtsfeste Seiner Majestät des Kaisers und Königs in der Aula der Königlichen Technischen Hochschule zu Aachen am 22. März, 1887, gehalten. Aachen, 1887. 14 pp., 10 x 6, pap.
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- 23 **YOUNG, THOMAS.** Course of lectures on natural philosophy and the mechanical arts; with references and notes by P. Kelland. new ed. Lond., 1845. 2 v., il., pl., 9 x 6, cl.
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## GENERAL SCIENCE—WEIGHTS AND MEASURES.

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- ALEXANDER, J. H.** Universal dictionary of weights and measures, ancient and modern; reduced to the standards of the United States of America. 1850. (See U-32.)
- AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.** Report of the Committee on Weights, Measures and Coinage. 1875. (See Sa3-29.3.)
- AMERICAN METRIC BUREAU.** Membership. Note: Duties and privileges of members. no date. (See Sa3-150.1.)
- AMERICAN METROLOGICAL SOCIETY.** Memorial; praying for the passage of an act permitting and requiring the use of the metric denominations of weights and measures in the custom-houses of the United States. no date. (See Sa3-109.2.)
- AMERICAN SOCIETY OF CIVIL ENGINEERS.** Documents in reference to the general adoption of the twenty-four hour notation on the railways of America; submitted at the annual meeting of the Society, New York, Jan. 19th, 1887. (See Sa3-1.9.)
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- 40 **BLAKE, H. T.** Shall the metric system be made compulsory? New Haven, 1879. pp. 589-611, 10 x 6, pap.
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- 9 **CONNECTICUT—SHELL FISH COMMISSIONERS.** Report to the General Assembly; 1st-6th; 1881-86. Hartford, 1882-86. 6 v., 9 x 6, pap.
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- 5 — Fisheries and fishery industries of the United States; prepared through the co-operation of the Commissioner of Fisheries and the Superintendent of the Tenth Census; by George Brown Goode, Assistant Secretary of the Smithsonian Institution, and others. Note: Pt. 1 wanting. Wash., 1887. 3 v. in 4, pl., maps, 12 x 9, cl.
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- 4 **GREECE.** History of Greece from the earliest times to its final subjection to Rome. Lond., 1829. 7 + 288 pp., 9 x 5, ½ cf.
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- 10 — Reports of the Committee of Investigation sent in 1873 by the Mexican Government to the frontier of Texas. Texan Border Commission. N. Y., 1875. 443 pp., 9 x 6, pap.
- 15 **OHIO.** Address at the Centennial Celebration, at Marietta, Ohio, July 15th, 1888, of the settlement of the Northwest Territory. ed. 2. Thomas Ewing. no place, 1888. 16 pp., 9 x 6, pap.
- 6 **PORTUGAL.** History of Spain and Portugal; from B. C. 1000 to A. D. 1814. Lond., 1833. 16 + 364 pp., 9 x 5, ½ cf.
- 18 **SALEM, MASS.** First houses in Salem. W. P. Upham. (Bulletin of the Essex Institute.) Salem, 1870. pp. 33-48, 10 x 6, pap. no title-page.
- 9 **SANTO DOMINGO**, past and present; with a glance at Hayti. Samuel Hazard. N. Y., 1873. 29 + 511 pp., il., pl., map, 8 x 5, cl.
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- 16 **HERSCHEL, CLEMENS.** On the best manner of making use of the service of experts in the conduct of judicial inquiries. Bost., 1886. 38 pp., 9 x 6, pap.
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- 29 **MACKINTOSH, SIR JAMES.** Discourse on the study of the law of nature and nations: together with a collected list of works upon international law, a sketch of the author's life, etc., by J. G. Marvin. Bost., 1843. 40 + 103 pp., 9 x 6, b. p.
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- 30 —In the matter of the hearing in relation to "the Greater New York," held before the Sub-Committee of the Joint Committee on the Affairs of Cities. (Senate, No. 44.) Albany, 1896. 667 pp., 9 x 5, cl.
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- 29 **NEW YORK STATE—ASSEMBLY SELECT COMMITTEE ON CAPITAL PUNISHMENT.** Report. no place, 1841 (?) 164 pp., 9 x 6, b. p. no title-page.
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- 31 —Charter of the City of New York. no place, 1857. 31 pp., 8 x 5, pap.
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- 14 **PENNSYLVANIA—CONSTITUTIONAL CONVENTION.** New constitution; to be submitted to a vote of the people, Dec. 16th, 1873. no place, no date. 48 pp., 9 x 6, pap.
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- 17 **SNYDER, W. L., comp.** Laws authorizing the incorporation of clubs, societies and associations, for literary, library, social, recreative and sporting purposes. N. Y., 1881. 35 pp., 7 x 5, pap.
- 11 **SOME INTERESTING LAW SUITS.** no place, 1886. 12 pp., 7 x 4, pap.
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- 10 **UNITED STATES—BUREAU OF EDUCATION.** Legal rights of children. (Circular of Information No.3.) Wash., 1880. 96 pp., 9 x 6, pap.
- 28 **UNITED STATES—27th CONGRESS, 3d SESS.** Acts and resolutions; with an appendix, containing all public treaties made and ratified subsequently to the publication of the laws of the preceding session, and all proclamations by the President promulgated within the same period, that affect any law or treaty of the United States. Wash., 1843. 132 + 51 pp., 9 x 6, b. p.
- 21 **UNITED STATES—42d CONGRESS, 2d SESS.** Acts and resolutions of the United States of America passed at the second session of the Forty-second Congress. Wash., 1872. 531 pp., 9 x 6, pap.
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- 18 **UNITED STATES—DEPARTMENT OF STATE.** Case of Great Britain as laid before the Tribunal of Arbitration convened at Geneva under the provisions of the treaty between the United States of America and Her Majesty the Queen of Great Britain, concluded at Washington, May 8th, 1871. Wash., 1872. 3 v., map, 9 x 6, cl.
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- 26 **GUMBINNER, L.** Katechismus der Spiritusfabrikation. Wien, 1875. 24 + 197 pp., il., 7 x 5, bds.

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- ART OF BREWING.** no place, no date. 64 pp., il., 9 x 5, b. p. no title-page. Zg-8, p. 337.
- 28 **BYRON, M. L.** The complete practical brewer; or, Plain accurate and thorough instructions in the art of brewing ale, beer and porter. Phil., 1856. 199 pp., il., 7 x 5, cl.

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- 25 **FASBENDER, FRANZ.** Katechismus des praktischen Brauwesens, erster Theil, behandelnd alle Fragen, welche auf dem Gebiete der Bier-Erzeugung vorkommen; für Bierbrauer aller Classen, sowie auch für Brauereibesitzer, Directoren und Beamte. Wien, no date. 6 + 118 pp., pl., 7 x 5, bds.
- 30 **INTERNATIONALE BRAUER-VERSAMMLUNG.** Verhandlungen vom 16-21, Juni, 1873, zu Wien; nach den stenographischen Aufzeichnungen herausgegeben vom Comité, redigirt von Franz Fasbender. Wien, 1873. 145 pp., 10 x 7, bds.

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- 14 **LANDRETH, O. H.** Economical production of charcoal for blast furnace purposes. Salem, 1888. pp. 145-151, 9 x 6, pap.
- 27 **SVEDELIUS, G.** Hand-book for charcoal burners; tr. fr. the Swedish by R. B. Anderson; ed. with notes by W. J. L. Nicodemus. N. Y., 1875. 15 + 217 pp., il., 8 x 5, cl.

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- 16 **MONTGOMERY, J. A.** Utilization of by-products from coke ovens. no place, 1895. 10 pp., 9 x 6, pap.
- PLATT, FRANKLIN.** Special report on the coke manufacture of the Youghiogheny River Valley in Fayette and Westmoreland Counties; with geological notes on the coal and iron ore beds, from surveys by Charles A. Young; to which are appended a report on methods of coking, by John Fulton, a report on the use of natural gas in the iron manufacture, by John B. Pearse and Franklin Platt. 1876. (See Yh-122L.)

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**UNITED STATES—GEOLOGICAL SURVEY.** Statistics relating to the manufacture of coke in the United States. 1897-98. (See Yh-40.)

**COTTON.**

**NEW ENGLAND COTTON MANUFACTURERS' ASSOCIATION.** Transactions. (See Sa3-48.1.)

**UNITED STATES—CONSULS.** Cotton textiles in foreign countries: Reports on the cotton textiles imported into their several districts, etc. 1890. (See Zd-14, Special consular reports, v. 1, Pt. 1.)

- 7 **URE, ANDREW.** Cotton manufacture of Great Britain systematically investigated. Lond., 1836. 2 v., il., pl., 8 x 5, cl.
- WEBBER, SAMUEL.** Historical sketch of the commencement and progress of the cotton manufacture in the United States up to 1876. 1879. (See Ga-1, p. 125.)

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- 4 **ARTIST AND TRADESMAN'S GUIDE;** embracing some leading facts and principles of science and a variety of matter adapted to the wants of the artist, mechanic, manufacturer and mercantile community; to which is annexed an abstract of tonnage, duties, custom-house tares, allowances and useful mensuration tables. ed. 3, enl. N. Y., 1829. 321 pp., 7 x 4, 1/2 sh.
- BABBAGE, CHARLES.** On the economy of machinery and manufactures. 1835. (See Ga-90.)
- CARNEGIE, ANDREW.** Pennsylvania's industries and railroad policy: An address delivered before the Legislature of Pennsylvania, at Harrisburg, on Monday evening, Apr. 8th, 1889. (See Ae-208.)
- KNAPP, F.** Chemical technology; or, Chemistry applied to the arts and to manufactures; ed. with numerous notes and additions, by Edmund Ronalds and Thomas Richardson. 1848. (See Yd-3.)
- 3 **MASSACHUSETTS—BUREAU OF STATISTICS OF LABOR.** Annual statistics of manufactures; 1st-13th; 1886-98. Bost., 1889-98. 12 v., 9 x 6, cl.

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**MASSACHUSETTS—CENSUS, 1885.** Statistics relating to manufactures and labor. 1888. (See Qc-29, v. 2, p. 29.)

**MINNESOTA—COMMISSIONER OF STATISTICS.** Statistics of Minnesota, pertaining to manufactures. 1871-74. (See Qc-36.)

**MUSPRATT, SHERIDAN.** Chemistry; theoretical, practical and analytical, as applied and relating to the arts and manufactures. 1860. (See U-21.)

- 11 **STATISTIK OVER NORGES FABRIKANLÆG, DEN 1ste NOVEMBER, 1879.** Kristiania, 1881. 58 + 157 pp., 10 x 6, pap.

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**UNITED STATES—CENSUS, 10th, 1880.** Report on the manufactures of the United States. 1883. (See Qc-10.2.)

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- 13 **DURFEE, W. F., and AUGUST GOBERT, FILS.** Plate-glass; its manufacture in the United States. Phil., 1876. 9 pp., 9 x 6, pap.

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- 29 **DUSSAUCE, H.** Practical treatise on the fabrication of matches, gun cotton, colored fires and fulminating powders. Phil., 1864. 336 pp., il., 7 x 5, cl.

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- 31 **REDWOOD, I. I.** Practical treatise on mineral oils and their by-products, including a short history of the Scotch shale oil industry, the geological and geographical distribution of Scotch shales, recovery of acids and soda used in oil refining, and a list of patents relating to apparatus and processes for obtaining and refining mineral oils. Lond., 1897. 336 pp., il., pl., por., 9 x 5, cl.

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- 10 **DOYLE, PATRICK.** Paper-making in India; being notes of a visit to the Lucknow Paper Mill. Lucknow, 1885. 17 pp., 7 x 5, pap.

- 9 **PLANCHE, GABRIEL.** De l'industrie de la papeterie. Paris, 1853. 311 pp., pl., 10 x 6, pap.

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- 5 **HANCOCK, THOMAS.** Personal narrative of the origin and progress of the caoutchouc or India-rubber manufacture in England. Lond., 1857. 7 + 283 pp., pl., por., 9 x 6, cl.

- 6 **SLOANE, T. O.** Rubber hand stamps and the manipulation of rubber: A practical treatise on the manufacture of India-rubber hand stamps, small articles of India-rubber, the hektograph, special inks, cements, and allied subjects. N. Y., 1891. 8 + 146 pp., il., 7 x 5, cl.

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- 15 **ATKINSON, R. W.** The chemistry of saké-brewing. [Memoirs of the Science Department, Tōkiō Daigaku (University of Tōkiō), No. 6.] Tokio, 2541 (1881). 8 + 73 pp., il., pl., 11 x 8, pap.

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- 18 **NEW YORK STATE—ONONDAGA SALT SPRINGS.** Annual report of the Superintendent; 1858, '60, '63, '66, '69-70, '78, '80-81. Albany, 1858-82. 14 v., 9 x 6, pap.

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- 17 **BOUSCAREN, L. F. G.** Extraction of sacchariferous juices of plants by "diffusion": A new process and apparatus. Cin., 1876. 12 pp., pl., 9 x 6, pap.

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- 12 **NEW JERSEY—COMMISSION ON TEXTILE FABRICS.** Report of the Commission appointed to devise a plan for the encouragement of manufactures of ornamental and textile fabrics. Trenton, 1878. 90 pp., 9 x 6, pap.
- 19 **TINWARE.**

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- 50 **ARGENTINE REPUBLIC—PRESIDENT.** Message on opening the session of the Argentine Congress, May, 1888. Buenos Aires, 1888 (?) 37 pp., 8 x 5, pap.

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- 85 **BLODGET, LORIN.** Census of industrial employment, wages and social condition in Philadelphia, in 1870. no place, no date. 35 pp., 9 x 6, pap. no title-page.
- 48 **BORGHT, R. VAN DER.** Sociale Friedenspolitik der letzten 10 Jahre in Deutschland: Feste der zur Vorfeier des Geburtstages Sr. Majestät des Kaisers und Königs Wilhelm II.; gehalten am 26. Januar, 1898 in der Aula der Königl. Technischen Hochschule zu Aachen. Aachen, no date. 27 pp., 9 x 6, pap.
- 82 **BROWN, J. E.** Speech, delivered in the Senate of the United States, Mar. 14th, 1888, on the proper mode of collecting the revenues of the United States. Wash., 1888. 35 pp., 9 x 6, pap.
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- 148 **BULLION; ITS PRODUCTION AND USE.** N. Y., 1880. 48 + 8 pp., il., 8 x 5, pap.
- 52 **BUREAU OF THE AMERICAN REPUBLICS.** Import duties of Brazil: Direitos de importação do Brazil; corrected to July 1st, 1891. (Bulletin No. 8.) Wash., 1891. 3 + 139 pp., 9 x 6, pap.
- 78 —Import duties of Colombia: Derechos de importación en Colombia. (Bulletin No. 27.) Wash., 1891(?) 17 pp., 9 x 6, pap.
- 76 —Import duties of Costa Rica: Derechos de importación en Costa Rica. (Bulletin No. 11.) Wash., 1891(?) 33 pp., 9 x 6, pap.
- 77 —Import duties of Cuba and Puerto Rico: Derechos de importación en Cuba y Puerto Rico. (Bulletin No. 10.) Wash., 1891(?) 5 + 114 pp., 9 x 6, pap.
- 72 —Import duties of Ecuador: Derechos de importación en Ecuador. (Bulletin No. 25.) Wash., 1891(?) 12 pp., 8 x 6, pap.
- 73 —Import duties of Honduras: Derechos de importación en Honduras. (Bulletin No. 24.) Wash., 1891(?) 42 pp., 8 x 6, pap.
- 53 —Import duties of Mexico: Derechos de importación en México. (Bulletin No. 5.) Wash., 1891(?) 46 pp., 9 x 6, pap.
- 74 —Import duties of Nicaragua: Derechos de importación en Nicaragua. (Bulletin No. 20.) Wash., 1891(?) 34 pp., 8 x 6, pap.
- 75 —Import duties of Santo Domingo: Derechos de importación en Santo Domingo. (Bulletin No. 12.) Wash., 1891(?) 37 pp., 8 x 6, pap.
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- 168 **BURMA—CHIEF COMMISSIONER.** Report on the administration of British Burma during 1880-81. Rangoon, 1881. 1 v., 13 x 8, pap.
- 6 **CALIFORNIA—LEGISLATURE.** Appendix to the Journals of the Senate and Assembly of the Twenty-fourth session of the Legislature of the State of California. Note: v. 1 wanting. Sacramento, 1881. 1 v., pl., map, tab., 9 x 6, ¾ sh.
- 118 **CAREY, H. C.** Commerce, Christianity and civilization vs. British free trade: Letters in reply to the *London Times*. Phil., 1876. 36 pp., 9 x 6, pap.
- 112 —Currency inflation; how it has been produced, and how it may profitably be reduced: Letters to B. H. Bristow, Secretary of the Treasury. Phil., 1874. 20 pp., 9 x 6, pap.
- 14 —Evidence before the Congressional Committee for ascertaining the causes of recent changes in the prices of the precious metals. no place, no date. 16 pp., 9 x 6, pap. no title-page.
- 111 —Resumption; when, and how, will it end? Letters to the President of the United States. Phil., 1877. 12 pp., 9 x 6, pap.
- 106 **CHADWICK, SIR EDWIN.** On preventive administration, as compared with curative administration, as practised in Germany. Lond., 1889 (?) 19 pp., 8 x 5, pap.
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- 149 **COOPER, PETER.** Letter on the currency. no place, 1875. 15 pp., facsim., 9 x 6, pap.
- 177 **DEPEW, C. M.** The government of the Philippine Islands: Speech in the Senate of the United States, Feb. 27th, 1900. Wash., 1900. 21 pp., 9 x 6, pap.
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- 121 **DUDLEY, T. H.** How protection affects the farmer: An address delivered before the New Jersey State Agricultural Society, at Waverly, Sept. 22d, 1882. (Tariff Tract No. 6.) Phil., no date. 16 pp., 9 x 6, pap. no title-page.
- 87 **ELKINS, S. B.** The industrial question in the United States: Address delivered before the Alumni Association of the University of the State of Missouri, June 3d, 1885. N. Y., no date. 36 pp., 9 x 6, pap.
- FAIRBAIRN, HENRY.** Treatise on the political economy of railroads in which the new mode of locomotion is considered in its influence upon the affairs of nations. 1836. (See Aa-43.)
- FINCH, JOHN.** Town dues and currency. free trade and protection to British industry. Liverpool, 1850. 46 pp., 9 x 6, b. p. Ad-251, p. 6019.
- 51 **FLORIDA—COMMISSIONER OF LANDS AND IMMIGRATION.** Report; 1883-84. Tallahassee, 1885. 1 v., 9 x 6, pap.
- 143 **FREED, A. T.** The "barbarism" of protection: An open letter to John Bright. (Tariff Tract No. 7.) Phil., 1880 (?) 12 pp., 9 x 6, pap. no title-page.
- 95 **GALLINGER, J. H.** American tariffs from Plymouth Rock to McKinley, and Proposed tariff revision: Speeches in the Senate of the United States, May 16th, 17th, 19th, 1894, and May 27th, 1896. N. Y., 1896. 96 pp., 8 x 5, pap. no title-page.
- 158 **GARRISON, W. L.** Trusts and tariffs. no place, 1899. 4 pp., 9 x 6, pap.
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- 56 **GIFFEN, SIR ROBERT.** The success of free trade: An address delivered before the North Staffordshire Chamber of Commerce, Dec. 15th, 1897. no place, 1898 (?) 11 pp., 9 x 6, pap.
- 104 **GREAT BRITAIN—COMMISSIONERS OF THE ROYAL MINT.** Report of the Commissioners appointed to inquire into the constitution, management, and expense of the Royal Mint. Lond., 1849. 298 pp., pl., 13 x 8, b. p.
- 175 **GREAT BRITAIN—HOUSE OF COMMONS.** Index to the reports from select committees, 1800-1845. no place, 1845. 457 pp., 13 x 8, 3/4 sh.
- 162 **GUNNING, J. W.** Ueber Saccharimetrie und Zuckerbesteuerung: Bericht an den Finanzminister des Königreichs der Niederlande; deutsche, vom Verfasser autorisirte Ausgabe, bewirkt durch C. Scheibler. Ber., 1875. 123 pp., pl., 10 x 7, pap.
- 164 **GUTHRIE, EDWIN.** Payment of interest on capital during construction of works: A paper read at a meeting of the Manchester Society of Chartered Accountants. Contents: Pt. 1, Legislation as affecting the question. Pt. 2, The question as one of principle, as one of expediency and as one of local interest. Manchester, 1886. 19 pp., 8 x 6, pap.
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- 163 **HERRMANN, GUST.** Die gewerbliche Arbeit: Festrede zur Vorfeier des Geburtstages Sr. Majestät Kaiser Wilhelms II., am 26. Januar, 1891, in der Aula der Königl. Tech. Hochschule zu Aachen. Aachen, 1891. 22 pp., 9 x 6, pap.
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- 54 **HEWITT, E. G.** Relative stocks of gold and silver per capita, 1810-1895. no place, 1896 (?) tab., 12 x 10, pap.
- 160 **HOLT, B. W.** Tariff the mother of trusts: A paper delivered before the Chicago Conference on Trusts, Sept. 14th, 1899. no place, 1899. 8 pp., 9 x 6, pap.
- 159 —The tin-plate trust. no place, 1899. 12 pp., 9 x 6, pap.
- 9 **IDAHO—GOVERNOR.** Report to the Secretary of the Interior; 1889. Wash., 1889. 1 v., 9 x 6, pap.
- 172 **INTERNATIONAL AMERICAN CONFERENCE.** Minutes. Note: A conference called for the purpose of discussing some plan of arbitration for the settlement of disagreements and disputes between the governments on the American Continent. Wash., 1890. 905 pp., 11 x 9, pap.
- 173 —Reports of Committees and discussions thereon. Wash., 1890. 4 v., 11 x 9, pap.
- 46 **INTERNATIONAL MONETARY CONFERENCE, PARIS, 1878;** held, in compliance with the invitation extended to certain governments of Europe by the Government of the United States, in Aug., 1878, under the auspices of the Ministry of Foreign Affairs of the Republic of France. (45th Cong., 3d Sess. Senate ex. doc. No. 58.) Wash., 1879. 14 + 918 pp., pl., 9 x 6, cl.



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- 187 **ITALY—COMMISSIONE D'INCHIESTA PER LA REVISIONE DELLA TARIFFA**  
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- JACQUIN, F.** Étude sur l'exploitation des chemins de fer par l'état. 1878. (See Ae-14.)
- 145 **JAMES, E. J.** Education of business men: An address before the Convention of the American Bankers' Association at Saratoga, Sept. 3d, 1890: Plan of the Wharton School of Finance and Economy. N. Y., 1891. 39 pp., 9 x 6, pap.
- 136 **JERVIS, J. B.** Lecture on industrial economy. no place, 1878(?) 12 pp., 9 x 6, pap. no title-page.
- 61 —Question of labour and capital. N. Y., 1877. 216 pp., 8 x 5, cl.
- 114 —Series of letters, written for the *Roman Citizen*, on the currency and public debt of the United States. Rome, 1868. 32 pp., 9 x 6, pap.
- 147 **JONES, J. P.** Money: Speech on the free coinage of silver in the United States Senate, May 12th and 13th, 1890. Wash., 1890. 116 pp., 9 x 6, pap.
- 10 **KANSAS—GOVERNOR.** Annual message to the Legislature; 1872. Topeka, 1872. 1 v., tab., 8 x 5, pap.
- 122 **KASSON, J. A.** Free trade not the international law of the Almighty. (Tariff Tract No. 3.) Phil., 1884(?) 11 pp., 9 x 6, pap. no title-page.
- 165 **KELLEY, W. D.** Proposed reciprocity treaty: An address delivered by request of representatives of the leading manufacturing industries of the United States, at the Academy of Music, Oct. 28th, 1874. Phil., 1874. 35 pp., 9 x 6, pap.
- 137 —Reduction of internal taxes: Address before the New York Tariff Convention, Nov. 29th, 1881. no place, 1881(?) 23 pp., 9 x 6, pap. no title-page.
- 123 —Science, A. based on assumptions. Note: An address on free trade. (Tariff Tract No. 8.) Phil., 1882(?) 16 pp., 9 x 6, pap. no title-page.
- 150 —Silver, as a commodity, as money, and as a material for token coins, or fractional currency. Phil., 1877. 16 pp., 9 x 6, pap.
- 12 —Speeches, addresses and letters on industrial and financial questions. Phil., 1872. 30 + 514 pp., 9 x 6, cl.
- 108 —The Wood Tariff Bill: Speech in the House of Representatives, May 9th, 1878. Wash., 1878. 47 pp., 8 x 6, pap.
- 154 **KNOX, J. J.** Address upon free silver coinage; also, "Three pecks to a bushel." no place, no date. 7 pp., 9 x 6, pap. no title-page.
- 157 **LAMB, H. W.** Protective taxes favor trusts. no place, 1899. 4 pp., 9 x 6, pap.
- 116 **LAPSLEY, J. W.** How to restore southern prosperity: A southern view of the tariff. Phil., no date. 12 pp., 9 x 6, pap. no title-page.
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- 115 **LEARNED, EDWARD.** How to pay it; or, a Method for discharging the national debt, and lessening the burden of taxation. N. Y., 1869. 19 pp., 9 x 6, pap.
- LEVEL, ÉMILE.** Les chemins de fer devant le Parlement; l'exploitation par l'état et par l'industrie privée. 1880. (See Ae-120.)
- 109 **LOUISIANA—SPECIAL COMMITTEE ON FUNDING BOARD.** Report of the Special Committee of the House of Representatives appointed to examine into the proceedings of the Funding Board, and the Board of Audit, and to give a history of the origin of the state debt, submitted Feb. 23d, 1876. New Orleans, 1876. 89 + 95 pp., 8 x 5, pap.
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- 80 **MARTIN, W. R.** Civil rights of women: Lecture before the University Law School; freedom the only solution; English law vs. American theory and practice of law. Albany, 1871. 24 pp., 9 x 6, pap.
- 113 **MASON, D. H.** Bottom facts: A calm presentation of some of the foundation principles upon which the American policy of protection to home industry rests. (Tariff Tract No. 1.) Phil., 1881(?) 24 pp., 9 x 6, pap. no title page.
- 99 —How western farmers are benefited by protection. Chic., 1875. 112 pp., 9 x 6, pap.
- 7 **MASSACHUSETTS—AUDITOR.** General statement and summary of the financial transactions of the year; 1866-68. Bost., 1867-69. 3 v., 10 x 6, pap.
- 3 **MASSACHUSETTS—BUREAU OF STATISTICS OF LABOR.** Annual report; 3d, 5th-8th, 10th, 16th, 18th-29th; 1872, '74-77 '79, '85, '87-98. Bost., 1872-99. 19 v., 9 x 6, cl.
- 97 —Canadian French in New England; by Carroll D. Wright. Bost., 1882. 92 pp., 9 x 6, pap.
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- 65 —Early factory labor in New England; by Harriet H. Robinson. Bost., 1889. 26 pp., 9 x 6, pap.
- 66 —Employers' liability for personal injuries to their employees; by Charles G. Fall. Bost., 1889. 5 + 180 pp., 9 x 6, pap.
- 161 —Fall River, Lowell, and Lawrence; by Carroll D. Wright. Note: An account of the mills and operatives of the three cities, with social and industrial statistics. Bost., 1882. 226 pp., 9 x 6, pap.
- 92 —Industrial conciliation and arbitration; comp. by Carroll D. Wright. Bost., 1881. 173 pp., 9 x 6, pap.
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- 71 —Profit sharing; by Carroll D. Wright. ed. 2. Bost., 1886. 83 pp., 9 x 6, pap.
- 69 —Strikes in Massachusetts, 1830-1880; by Carroll D. Wright. Bost., 1889. 4 + 73 pp., 9 x 6, pap.
- 60 —Sunday labor; by Carroll D. Wright. Bost., 1885. 75 pp., 9 x 6, pap.
- 68 —Uniform hours of labor; by Carroll D. Wright. Bost., 1889. 5 + 156 pp., 9 x 6, pap.
- 58 —Working girls of Boston; by Carroll D. Wright. Bost., 1884. 133 pp., 9 x 6, pap.
- MASSACHUSETTS—CENSUS, 1885.** Statistics relating to manufactures and labor. 1888. (See Qc-29, v. 2, p. 29.)
- 186 **MASSACHUSETTS—DISTRICT POLICE.** Report of the Chief, including the Inspection Department and the Detective Department; 1898. Bost., 1899. 1 v., 9 x 6, cl.
- 24 **MILLS, T. B.** Financial resources of the State of Arkansas; with the state and municipal debt of each state in the Union. Little Rock, 1873. 66 pp., 9 x 5, pap.
- 140 **MOORE, ROBERT.** Farm products, wages and silver: A statement of facts; presented to the Commercial Club of St. Louis, Apr. 20th, 1895. St. Louis, 1895. 8 pp., pl., tab., 9 x 6, pap.
- 23 **MORRELL, D. J.** Letter to the Secretary of the American Iron and Steel Association, showing the amount of direct and indirect taxes on American iron, as compared with the import duties levied upon foreign iron, etc. Phil., 1895. 12 pp., 8 x 5, pap.
- 128 **MORRILL, J. S.** The protective policy explained: An abstract of an article in the *North American Review*. (Tariff Tract No. 4.) Phil., 1890(?) 8 pp., 9 x 6, pap. no title-page.
- 146 **NAPIER, J. M.** Inspection of European mints: Report. Lond., 1870. 33 pp., 9 x 6, pap.
- NATIONAL ASSOCIATION OF BAR IRON MANUFACTURERS.** Argument of the Association against any reduction of present duties on iron; read before the Senate Committee on Finance. 1872. (See Sa3-82.2.)
- 174 **NATIONAL AUSTRALASIAN CONVENTION.** Official record of the proceedings in the Parliament House, Sydney, New South Wales, in the months of March and April, 1891. Sydney, 1891. 196 + 455 pp., 13 x 8, cl.
- NATIONAL CIVIL SERVICE REFORM LEAGUE.** Civil service reform in the National service, 1889-1891: Six reports of the Special Investigating Committee. 1891. (See Sa3-160.1.)
- 103 **NATIONAL CONVENTION OF THE BUREAUS OF STATISTICS OF LABOR IN the United States.** Proceedings at the annual session; 2d-7th; 1884-89. Note: No. 6, 1888 wanting. Des Moines, 1884-89. 5 v., 9 x 6, pap.
- 13 **NATIONAL EXECUTIVE SILVER COMMITTEE.** Report; 1st; 1890. Note: Committee appointed at the National Silver Convention held at St. Louis, Nov., 1889. Wash., 1890. 1 v., 9 x 6, pap.
- NEW ENGLAND FREE TRADE LEAGUE.** Debate on equitable protection between David Lubin of Philadelphia and John E. Russell of Leicester, Mass., Nov. 6th, 1897. no date. (See Sa3-158.1.)
- NEW YORK STATE—ASSEMBLY.** Report of the Select Committee on so much of the Governor's message as relates to elections and the elective franchise, on several petitions relative to a registry law, etc. Albany, 1841. 4 pp., 9 x 6, b. p. Cfh-15, p. 577.
- Report of the Select Committee on so much of the Governor's message as relates to the National Domain. no place, 1840. 20 pp., 9 x 6, b. p. no title-page. Cfh-16, p. 705.
- Report of the Select Committee on so much of the Governor's message as relates to the United States Deposit Fund and the National Domain. Albany. 1841. 13 pp., 10 x 6, b. p. Cfh-15, p. 481.

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**NEW YORK STATE—ASSEMBLY COMMITTEE ON FINANCE.** Report on so much of the Governor's message as relates to the finances of the state. no place, 1835. 19 pp., 9 x 6, b. p. no title-page. Cfh-10, p. 1069.

**NEW YORK STATE—ASSEMBLY COMMITTEE ON JUDICIARY.** Report on petitions for a repeal of the law exempting ministers of the gospel from taxation; and remonstrance against such appeal. Albany, 1841. 16 pp., 9 x 6, b. p. Cfh-15, p. 633.

—Report on the matters of differences between the States of New York and Virginia. Note: Report relates to the returning of escaped slaves. no place, 1843. 24 pp., 9 x 6, b. p. no title-page. Zh-28, p. 1184.

—Report on the petitions of numerous inhabitants of the state praying an amendment of the Constitution, and for the repeal of all laws allowing slaves to be held in this state. Albany, 1841. 4 pp., 9 x 6, b. p. Cfh-15, p. 573.

**NEW YORK STATE—ASSEMBLY COMMITTEE ON MILITIA AND PUBLIC DEFENCE.** Report on the memorial and remonstrance of the religious Society of Friends in the State of New York. Albany, 1841. 6 + 1 pp., 9 x 6, b. p. Cfh-15, p. 557.

**NEW YORK STATE—ASSEMBLY COMMITTEE ON WAYS AND MEANS.** Report of the Committee to which was referred so much of the Governor's message as relates to the finances of the state. no place, 1842. 65 pp., 9 x 6, b. p. Cfh-36, p. 423.

—Report of the Minority of the Committee upon the debt, revenue and finances of the state generally, and upon the bill entitled "An act to provide funds for carrying on the public works now in progress." Albany, 1841. 43 pp., 9 x 6, b. p. Cfh-15, p. 819.

—Report on so much of the Governor's message as relates to the debt, revenue and expenditures of the state, etc. Albany, 1841. 9 pp., 9 x 6, b. p. Cfh-34, p. 337.

**NEW YORK STATE—ASSEMBLY STANDING COMMITTEE ON BANKS AND Insurance Companies.** Report of a minority of the Committee on the petitions for a law requiring banks to keep their notes at par, in the City of New York, etc. no place, 1840. 7 pp., 9 x 6, b. p. no title-page. Cfh-16, p. 199.

**NEW YORK STATE—BANK COMMISSIONERS.** Annual report; 1838-39. 2 v., 9 x 6, b. p. Cfh-16, pp. 237, 285.

—Same; 1840-41. no place, 1841-42 (?) 2 v., 9 x 6, b. p. Ag-98, pp. 579, 1015.

—Same; 1842. no place, 1842. 1 v., 9 x 6, b. p. Zh-28, p. 1209.

102 **NEW YORK STATE—BUREAU OF STATISTICS.** Summary of the third annual report of the Bureau; by Charles F. Peck. Albany, 1886. 41 pp., 9 x 6, pap.

4 **NEW YORK STATE—BUREAU OF STATISTICS OF LABOR.** Annual report; 3d-4th; 1885-86. Albany, 1886-87. 2 v., pl., 9 x 6, ¾ mor.

**NEW YORK STATE—COMMISSIONERS OF THE LAND OFFICE.** Report; 1840. Albany, 1841. 1 v., 10 x 6, b. p. Cfh-15, p. 475.

—Report on the petition of Franklin Rose, relative to certain land of the Oneida Reservation. no place, 1839. 3 pp., 9 x 6, b. p. no title-page. Cfh-16, p. 207.

**NEW YORK STATE—COMPTROLLER.** Annual report; 1835, '37-39. Albany, 1836-40. 4 v., 9 x 6, b. p. Cfh-23, pp. 1, 103, 193, 431.

—Same; 1840. 1 v., 9 x 6, b. p. Cfh-34, p. 117.

—Same; 1841, '44-45. 3 v., 9 x 6, b. p. Cfh-11, pp. 1, 273, 391.

—Same; 1842. 1 v., 9 x 6, b. p. Cfh-37, p. 231.

—Same; 1843. 1 v., 10 x 6, b. p. Cfh-42, p. 109.

—Same; 1850. 1 v., 10 x 6, b. p. Cfh-38, p. 324.

8 —Same; 1889-91. Albany, 1890-92. 2 v., 9 x 6, cl.

—Communication in relation to the finances of the state. Albany, 1842. 26 pp., 9 x 6, b. p. Cfh-11, p. 187.

—Report in answer to a resolution of the Senate relative to the state debt, etc. Albany, 1843. 2 pp., 9 x 6, b. p. Cfh-37, p. 494.

—Report in relation to expenses of government, etc., from 1817 to 1851, inclusive. no place, 1852. 8 pp., 9 x 6, b. p. no title-page. Ad-251, p. 5083.

—Report in relation to the valuation of real and personal estate in the several cities and counties of the state. Albany, 1840. 38 pp., 9 x 6, b. p. Cfh-9, p. 443.

—Report relative to moneys, etc., appropriated to academies and colleges. Albany, 1837. 5 pp., 10 x 6, b. p. Cfh-13, p. 495.

—Report relative to state stocks issued to railroad companies. Albany, 1841. 16 pp., 9 x 6, b. p. Cfh-34, p. 213.

—Report respecting the amount of appropriations for internal improvements, and amount of stock issued, etc. Albany, 1843. 22 pp., 9 x 6, b. p. Cfh-37, p. 503.

2 **NEW YORK STATE—FACTORY INSPECTORS.** Annual report; 1st-3d, 7th-11th, 12th; 1886-88, '92-95, '97. Albany, 1887-88. 8 v., il., pl., tab., 9 x 6, cl.



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- NEW YORK STATE—GOVERNOR.** Message to the Senate and Assembly; 1836. Albany, 1836. 1 v., 9 x 6, b. p. Cfh-12, p. 1.  
 —Same; 1837. 1 v., 9 x 6, b. p. Cfh-13, p. 1.  
 —Same; 1842. 1 v., 9 x 6, b. p. no title-page. Ag-98, p. 1.  
 —Same; 1843. 1 v., 9 x 6, b. p. no title-page. Zh-28, p. 1023.  
 —Same; 1852. 1 v., 9 x 6, b. p. Cfh-39, p. 1.
- 11 —Public papers of John T. Hoffmann, Governor of New York, 1869-72. Albany, 1872. 542 pp., por., 9 x 6, cl.
- NEW YORK STATE—LEGISLATURE.** Report of the Joint Committee of the Senate and Assembly, appointed to examine the accounts of the Treasurer, and on so much as relates to the Banking Department. no place, 1843. pp. 1-7, 57-59, tab., 9 x 6, b. p. no title-page. Zh-28, p. 1332.
- NEW YORK STATE—SENATE.** Report of the Select Committee consisting of one senator from each district, on sundry petitions for the passage of a law creating a general system of private banking. Albany, 1837. 24 pp., 10 x 6, b. p. Cfh-13, p. 501.  
 —Report of the Select Committee, on numerous petitions relative to the license laws. no place, 1840. 12 pp., 9 x 6, b. p. no title-page. Cfh-16, p. 731.
- NEW YORK STATE—SENATE COMMITTEE ON FINANCE.** Report of the Committee to which was referred that portion of the Governor's message which relates to the financial condition of the state. Albany, 1843. 10 pp., 9 x 6, b. p. Cfh-37, p. 794.  
 —Report on various reports referred, of the state officers. Albany, 1841. 14 + 1 pp., 9 x 6, b. p. Cfh-15, p. 617.
- 188 **NEW YORK STATE—SECRETARY OF STATE.** Manual for the use of the Legislature; 1852-72. Note: 1853, '60, 63-66, '70-71 wanting. Albany, 1852-72. 13 v., pl., 6 x 4, mor.
- NEW YORK STATE—SURVEYOR-GENERAL.** Report on the petition relating to the lands of the St. Regis Indians. Albany, 1841. 5 pp., 10 x 6, b. p. Cfh-15, p. 499.
- NEW YORK STATE—TREASURER.** Annual report; 1839. Albany, 1840. 1 v., 9 x 6, b. p. Cfh-16, p. 103.  
 —Same; 1840. 1 v., 10 x 6, b. p. Cfh-15, p. 153.
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